SHARP

MINI KOMPONENTEN SYSTEM
MINI CHAÎNE
SISTEMA MINI
MINI KOMPONENT SYSTEM
MINI SISTEMI
MINI SYSTEEM
MINI COMPONENT SYSTEM

MODELL MODELLO
MODÈLE MODEL
MODELO MODEL
MODELL

CD-PC651H

BEDIENUNGSANLEITUNG
MODE D'EMPLOI
MANUAL DE MANEJO
BRUKSANVISNING
MANUALE DI ISTRUZIONI
GEBRUIKSAANWIJZING
OPERATION MANUAL

Mini Komponenten System CD-PC651H besteht aus CD-PC651H (Hauptgerät), CP-C651H (Front-Lautsprecher), GBOXS0026AWM1 (Center-Lautsprecher) und GBOXS0027AWM1 (Surround-Lautsprecher).

Mini-chaîne CD-PC651H composée de CD-PC651H (appareil principal), CP-C651H (enceintes avant), GBOXS0026AWM1 (enceinte centrale) et GBOXS0027AWM1 (enceintes surround).

Sistema mini CD-PC651H que consta de CD-PC651H (aparato principal), CP-C651H (altavoces delanteros), GBOXS0026AWM1 (altavoz central), y GBOXS0027AWM1 (altavoces de sonido perimétrico).

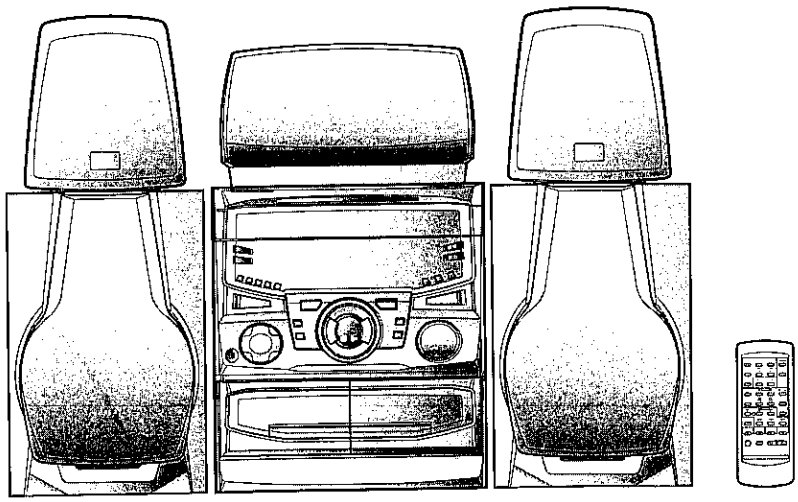
CD-PC651H mini komponent system bestående av CD-PC651H (huvudenheten), CP-C651H (främre högtalarna), GBOXS0026AWM1 (centrum högtalaren) och GBOXS0027AWM1 (surroundrum högtalarna).

Mini sistemi CD-PC651H composto da CD-PC651H (apparecchio principale), CP-C651H (diffusori frontali), GBOXS0026AWM1 (diffusore centrale) e GBOXS0027AWM1 (diffusori surround).

CD-PC651H mini systeem bestaande uit CD-PC651H (hoofdtoestel), CP-C651H (voor-luidsprekers), GBOXS0026AWM1 (midden-luidspreker) en GBOXS0027AWM1 (surround luidsprekers).

CD-PC651H mini component system consisting of CD-PC651H (main unit), CP-C651H (front speakers), GBOXS0026AWM1 (centre speaker) and GBOXS0027AWM1 (surround speakers).

DEUTSCH
FRANÇAIS
ESPAÑOL
SVENSKA
ITALIANO
NEDERLANDS
ENGLISH



COMPACT disc DIGITAL AUDIO

R·D·S EON

SAVING ENERGY STAND-BY POWER CONSUMPTION 0.6W

BESONDERE ANMERKUNGEN
REMARQUES SPÉCIALES
NOTAS ESPECIALES
SÄRSKILDA ANMÄRKNINGAR
NOTE PARTICOLARI
BIJZONDERE OPMERKINGEN
SPECIAL NOTES

- This equipment complies with the requirements of Directives 89/336/EEC and 73/23/EEC as amended by 93/68/EEC.

- Dieses Gerät entspricht den Anforderungen der EG-Richtlinien 89/336/EWG und 73/23/EWG mit Änderung 93/68/EWG.

- Ce matériel répond aux exigences contenues dans les directives 89/336/CEE et 73/23/CEE modifiées par la directive 93/68/CEE.

- Dit apparaat voldoet aan de eisen van de richtlijnen 89/336/EEG en 73/23/EEG, gewijzigd door 93/68/EEG.

- Dette udstyr overholder kravene i direktiv nr. 89/336/EEC og 73/23/EEC med tillæg nr. 93/68/EEC.

- Quest' apparecchio è conforme ai requisiti delle direttive 89/336/EEC e 73/23/EEC, come emendata dalla direttiva 93/68/EEC.

- **Dichiarazione di conformità**
  La società SHARP ELECTRONICS EUROPE GmbH dichiara che il prodotto SHARP MINI SISTEMI CD-PC651H è costruito in conformità alle prescrizioni del D.M.n°548 del 28/8/95, pubblicato sulla G.U.n°301 del 28/12/95 ed in particolare è conforme a quanto indicato nell'art. 2, comma 1 dello stesso decreto.

- Este equipamento obedece às exigências das directivas 89/336/CEE e 73/23/CEE, na sua versão corrigida pela directiva 93/68/CEE.

- Este aparato satisface las exigencias de las Directivas 89/336/CEE y 73/23/CEE, modificadas por medio de la 93/68/CEE.

- Denna utrustning uppfyller kraven enligt riktlinjerna 89/336/EEC och 73/23/EEC så som kompletteras av 93/68/EEC.

- Dette produktet oppfyller betingelsene i direktivene 89/336/EEC og 73/23/EEC i endringen 93/68/EEC.

- Tämä laite täyttää direktiivien 89/336/EEC ja 73/23/EEC vaatimukset, joita on muutettu direktiivillä 93/68/EEC.

- Η εγκατάσταση αυτή ανταποκρίνεται στις απαιτήσεις των οδηγιών της Ευρωπαϊκής Ενωσης 89/336/ΕΟΚ και 73/23/ΕΟΚ, όπως οι κανονισμοί αυτοί συμπληρώθηκαν από την οδηγία 93/68/ΕΟΚ.

- Audio-visuelles Material kann Urheberrechte umfassen, die ohne Genehmigung des Eigentümers dieser Urheberrechte nicht aufgenommen werden dürfen. Siehe die entsprechenden nationalen Gesetze.

- Le matériel audio-visuel peut comporter des oeuvres faisant l'objet de droits d'auteur qui ne peuvent être enregistrées sans l'autorisation du possesseur du droit d'auteur, veuillez vous référer aux réglementations nationales en vigueur.

- El material audiovisual puede consistir en trabajos que tengan derechos de autor y que no deben grabarse sin la autorización del poseedor de dichos derechos de autor. Sírvase consultar las leyes aplicables en su país.

- Audiovisuellt material kan innehålla upphovsrättsarbete som inte skall mångfaldigas utan tillstånd av copyrightinnehavaren. Se den tillämpliga lagen i ditt land.

- Il materiale audio-visivo che fosse soggetto a copyright non può essere registrato senza l'autorizzazione del possessore del copyright. Si prega di attenersi alle leggi in vigore sul territorio nazionale.

- Audio-visueel materiaal kan worden beschermd door auteursrechten, in welk geval het niet mag worden opgenomen zonder de toestemming van de auteursrechthouder. Zie voor nadere informatie de betreffende wetten in het land van gebruik.

- Audio-visual material may consist of copyrighted works which must not be recorded without the authority of the owner of the copyright. Please refer to relevant law in your country.

- Bei Einstellung der ON/STAND-BY-Taste auf STAND-BY ist die Netzspannung immer noch im Gerät vorhanden.
  Wenn die ON/STAND-BY-Taste auf STAND-BY eingestellt wird, kann das Gerät unter Verwendung der Timer-Betriebsart oder Fernbedienung in Betrieb gesetzt werden.

  Warnung:
  In diesem Gerät sind keine vom Benutzer wartbaren Teile vorhanden. Niemals Abdeckungen entfernen, außer wenn Sie dafür qualifiziert sind. In diesem Gerät sind gefährliche Spannungen vorhanden. Vor Ausführung von irgendwelchen Kundendienstarbeiten oder bei längerer Nichtverwendung des Gerätes stets den Netzstecker aus der Netzsteckdose ziehen.

- Lorsque la touche ON/STAND-BY est mise en STAND-BY, l'appareil est toujours sous tension.
  Lorsque la touche ON/STAND-BY se trouve sur la position STAND-BY, l'appareil est prêt à fonctionner par la minuterie ou la télécommande.

  Avertissement:
  Cet appareil contient des pièces non réparables par l'utilisateur. Personne non qualifiée n'enlèvera jamais les couvercles.L'appareil contenant des organes portés à haute tension, débrancher l'appareil avant toute réparation ou en période de non-utilisation.

- Cuando el botón ON/STAND-BY está puesto en la posición STAND-BY, todavía hay tensión dentro del aparato.
  Cuando el botón ON/STAND-BY está puesto en la posición STAND-BY, el aparato puede ponerse en funcionamiento utilizando el modo del temporizador o el controlador remoto.

  Advertencia:
  Tenga en cuenta que dentro de este aparato no hay piezas que pueda reparar. No quite nunca las tapas a menos que se esté cualificado para hacerlo. Este aparato tiene en su interior tensiones peligrosas. Desenchufe siempre la clavija de la red del tomacorriente antes de realizar cualquier servicio de mantenimiento y cuando no se use el aparato durante un largo período de tiempo.

- När ON/STAND-BY knappen är i läge STAND-BY, finns nätspänning i apparaten.
  Med ON/STAND-BY knappen i läge STAND-BY kan apparaten startas med timerfunktion eller fjärrkontrollen.

  Varning:
  Apparaten innehåller inga delar som kan åtgärdas av kunden. Höljet får endast öppnas av kvalificerad personal. Apparaten innehåller farliga spänningar. Stickkontakten ska därför dras ut från nätuttaget före reparationsarbeten och bör dras ut om apparaten inte ska användas på mycket länge.

PŘED SEJMUTÍM KRYTU NUTNO VYJMOUT VIDLICI ZE SÍŤOVÉ ZÁSUVKY.

PRED ZLOŽENÍM KRYTU JE NUTNÉ ODPOJIŤ PRÍSTROJ ZO SIETE.

- Når ON/STAND-BY-knappen er sat i STAND-BY positionen, er der stadig netspænding til stede i apparatet.
  Når ON/STAND-BY-knappen er sat i STAND-BY-position, kan apparatet startes v.hj.a. timer-funksionen eller fjernbetjeningen.

  Advarsel:
  Apparatet indeholder ingen dele, der kan repareres af brugeren selv. Fjern aldrig kabinettet med mindre De er kvalificeret hertil. Apparatet indeholder farlig strømspænding. Træk altid stikket ud af stikkontakten før der foretages reparationer, eller hvis apparatet ikke er i brug i længere tid.

- Quando il tasto ON/STAND-BY si trova in posizione STAND-BY, all'interno dell'apparecchio c'è ancora la corrente.
  Se il tasto ON/STAND-BY si trova nella posizione STAND-BY, l'unità può venire accesa con il modo timer o con il telecomando.

  Avvertenza:
  L'apparecchio non contiene parti riparabili dall'utente. Non togliere mai i coperchi, a meno di non essere qualificati per farlo. All'interno dell'apparecchio ci sono tensioni pericolose, per cui si deve sempre staccare la spina del cavo d'alimentazione dalla presa di corrente prima di qualsiasi intervento di manutenzione e quando non si usa l'apparecchio per un lungo periodo di tempo.

- Wanneer de ON/STAND-BY toets in de STAND-BY stand staat, loopt er nog steeds stroom (netspanning) in het toestel.
  Wanneer de ON/STAND-BY toets in de STAND-BY stand staat, kan het toestel ingeschakeld worden via de timerfunctie of de afstandsbediening.

  Waarschuwing:
  Dit toestel bevat geen door de gebruiker te repareren onderdelen. Verwijder de behuizing nooit tenzij u deskundig bent op dit gebied. In het toestel loopt een gevaarlijke spanning; haal de stekker altijd uit het stopcontact alvorens onderhoud uit te voeren of wanneer het toestel voor langere tijd niet gebruikt wordt.

- When the ON/STAND-BY button is set at STAND-BY position, mains voltage is still present inside the unit.
  When the ON/STAND-BY button is set at STAND-BY position, the unit may be brought into operation by the timer mode or remote control.

  Warning:
  This unit contains no user serviceable parts. Never remove covers unless qualified to do so. This unit contains dangerous voltages, always remove mains plug from the socket before any service operation and when not in use for a long period.

DENNA APPARAT ÄR ANSLUTEN TILL 230 V VÄXELSTRÖM NÄR STICKPROPPEN ÄR INSKJUTEN I VÄGGUTTAGET. FÖR ATT FULLSTÄNDIGT KOPPLA IFRÅN APPARATEN, V.G. DRAG UT STICKPROPPEN.

- **VORSICHT**
  Verwendung von Regelungen oder Einstellungen bzw. Durchführung von anderen Verfahren als die hierin angegebenen kann zum Aussetzen gefährlicher Strahlung führen.

  Da der in diesem Compact Disc Player verwendete Laserstrahl für die Augen schädlich ist, ist das Gehäuse unter keinen Umständen zu zerlegen. Wenden Sie sich für Wartungsarbeiten nur an berechtigten Fachhändler.

- **ATTENTION**
  Respecter les indications données relatives à la manipulation, au réglage et au fonctionnement. En cas de non-respect, on s'exposera à une radiation dangereuse.

  Éviter absolument de démonter l'appareil, qui utilise un rayon laser nuisible aux yeux. Pour toute réparation, s'adresser à une personne qualifiée.

- **ADVERTENCIA**
  El uso de los controles, ajustes o ejecución de procedimientos distintos de los especificados podría causar la exposición a radiación peligrosa.

  No intente desmontar la caja ya que el haz de láser usado en este tocadiscos de discos compactos es perjudicial para los ojos. Para el servicio de reparación, consulte a una persona cualificada.

- **VARNING**
  Användning av reglage eller justeringar eller handhavande på annat sätt än som anges kan leda till farlig bestrålning.

  Försök inte ta isär höljet eftersom CD-spelarens laserstråle är skadlig för ögonen. Överlåt service endast till kvalificerad personal.

- **ATTENZIONE**
  L'uso dei comandi e l'effettuazione di regolazioni e procedimenti diversi da quelli specificati nel manuale possono provocare una pericolosa esposizione alle radiazioni.

  Poiché il raggio laser usato in questo giradischi può danneggiare gli occhi, non smontare l'apparecchio. Per le riparazioni rivolgersi a personale specializzato.

- **LET OP**
  Gebruik van regelaars, het maken van instellingen, gebruik of handelingen anders dan in deze gebruiksaanwijzing vermeld, kan gevaarlijke straling blootleggen.

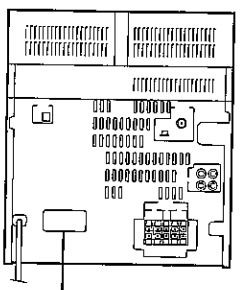
  De laserstraal in deze CD-speler kan de ogen beschadigen, Probeer derhalve de ombouw niet te verwijderen. Laat reparaties alleen over aan erkend onderhoudspersoneel.

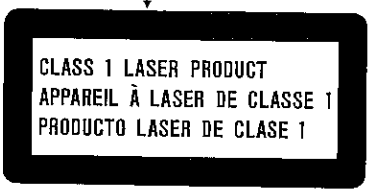
- **CAUTION**
  Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

  As the laser beam used in this compact disc player is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

VÝSTRAHA: VÝROBEK JE VYBAVEN LASEREM. PŘI NESPRÁVNÉ MANIPULACI S PŘÍSTROJEM V ROZPORU S TÍMTO NÁVODEM MŮŽE DOJÍT K NEBEZPEČNÉMU OZÁŘENÍ. NEOTVÍREJTE A NESNÍMEJTE PROTO ŽÁDNÉ KRYTY A PŘÍSTROJ NEOPRAVUJTE. OPRAVU A SERVIS SVĚŘTE ODBORNÉMU SERVISU.

VÝSTRAHA: VÝROBOK JE VYBAVENÝ LASEROM. PRI NESPRÁVNOM MANIPULOVANÍ S PRÍSTROJOM V ROZPORE S TÝMTO NÁVODOM MÔŽE DÔJSŤ K NEBEZPEČNÉMU OŽIARENIU. NEODKRÝVAJTE PRETO ŽIADNE KRYTY A PRÍSTROJ NEOPRAVUJTE. OPRAVU A SERVIS PRENECHAJTE ODBORNÉMU SERVISU.





LASER KLASSE 1
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT
LASER TŘÍDY 1
LASER TRIEDY 1

Eigenschaften der Laserdiode
Material: GaAlAs
Wellenlänge: 780 nm
Emissionsdauer: kontinuierlich
Laser-Ausgang: max. 0,6 mW

Caractéristiques de la diode laser
Matériel: GaAlAs
Longueur d'onde: 780 nm
Durée d'émission: ininterrompue
Puissance de sortie laser maximale: 0,6 mW

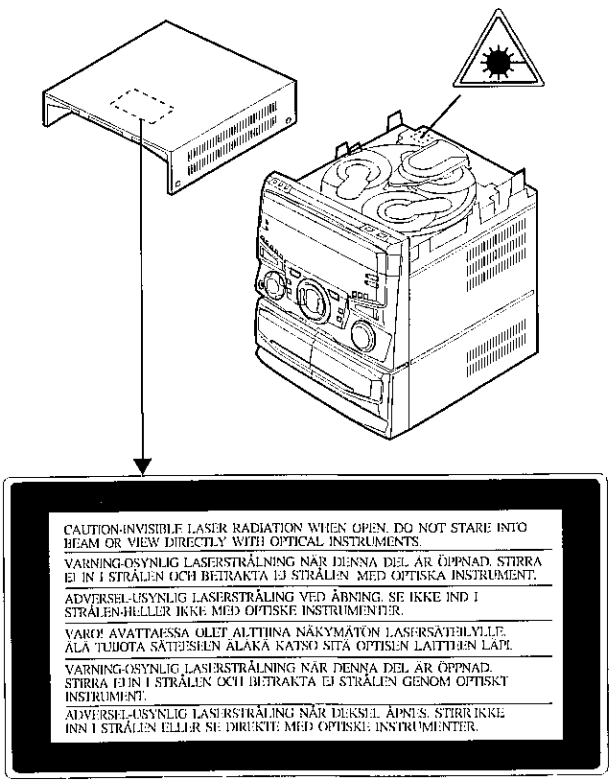
Características del diodo láser
Material: GaAlAs
Longitud de onda: 780 nm
Duración de emisión : continua
Salida de láser: máx. 0,6 mW

Laserdiodens egenskaper
Material: GaAlAs
Våglängd: 780 nm
Utstrålningsvaraktighet: kontinuerlig
Lasereffekt: max. 0,6 mW

Proprietà del diodo laser
Materiale: GaAlAs
Lunghezza d'onda: 780 nm
Durata di emissione: continua
Uscita massima del laser: 0,6 mW

Laser diode specificaties
Materiaal: GaAlAs
Golflengte: 780 nm
Stralingsduur: doorlopend
Laseruitgang: max. 0,6 mW

Laser Diode Properties
Material: GaAlAs
Wavelength: 780 nm
Emission Duration: continuous
Laser Output: max. 0.6 mW


CAUTION-INVISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.
VARNING-OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN OCH BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT.
ADVERSEL-USYNLIG LASERSTRÅLING VED ÅBNING. SE IKKE IND I STRÅLEN-HELLER IKKE MED OPTISKE INSTRUMENTER.
VARO! AVATTAESSA OLET ALTTIINA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ TUIJOTA SÄTEESEEN ÄLÄKÄ KATSO SITÄ OPTISEN LAITTEEN LÄPI.
VARNING-OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN OCH BETRAKTA EJ STRÅLEN GENOM OPTISKT INSTRUMENT.
ADVERSEL-USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. STIRR IKKE INN I STRÅLEN ELLER SE DIREKTE MED OPTISKE INSTRUMENTER.

VAROITUS! LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

VARNING - OM APPARATEN ANVÄNDS PÅ ANNAT SÄTT ÄN I DENNA BRUKSANVISNING SPECIFICERAS, KAN ANVÄNDAREN UTSÄTTAS FÖR OSYNLIG LASERSTRÅLNING, SOM ÖVERSKRIDER GRÄNSEN FÖR LASERKLASS 1.

ENGLISH

INTRODUCTION

Thank you for purchasing this SHARP product.
To obtain the best performance from this product, please read this manual carefully. It will guide you in operating your SHARP product.

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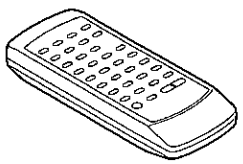
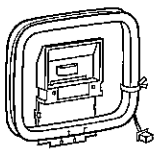
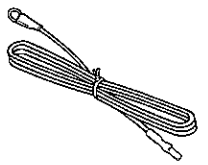
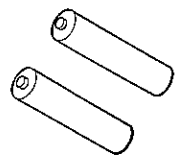
ACCESSORIES

Parts and accessories mentioned in this operation manual other than those in the drawing are not included.

			
Remote control × 1	AM loop aerial × 1	FM aerial × 1	"AA" size battery (UM/SUM-3, R6, HP-7 or similar) × 2

DOLBY SURROUND
PRO • LOGIC
Manufactured under license from Dolby Laboratories Licensing Corporation.
DOLBY, the double-D symbol and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.

PRECAUTIONS

■ General

- Please ensure that the equipment is positioned in a well ventilated area and ensure that there is at least 10 cm (4") of free space along the sides, top and back of the equipment.
- Do not use oil, solvents, petrol, paint thinners or insecticides on the unit.
- Do not expose the unit to moisture, to temperatures higher than 60°C (140°F) or to extreme low temperatures.
- Keep the unit away from direct sunlight, strong magnetic fields, excessive dust, humidity and electronic/electrical equipment (home computers, facsimiles, etc.) which generates electrical noise.
- Hold the AC power plug by the head when removing it from the AC socket, as pulling the lead can damage internal wires.
- When cleaning the heads, pinch rollers, etc, remove the AC power plug from the wall socket as the unit contains high voltages.
  Do not remove the outer cover, as this may result in electric shock. Refer internal service to your local SHARP service facility.
- Use the unit on a firm, level surface free from vibration, and do not place anything on the top of the unit.
- If the unit does not work properly whilst in use, disconnect the AC power lead from the AC socket. Plug the AC power lead back in, and then press the ON/STAND-BY button to turn the power on.
- If an electrical storm is taking place near you, it is suggested that you disconnect the AC power lead from the AC socket for safety.

Warning:
The voltage used must be the same as that specified on this unit. Using this product with a higher voltage other than which is specified is dangerous and may result in a fire or other type of accident causing damage. SHARP will not be held responsible for any damage resulting from use of this unit with a voltage other than that which is specified.

■ Volume control

The sound level at a given volume setting depends on a combination of speaker efficiency, location and various other factors.
It is advisable to avoid exposure to high volume levels, which occur whilst turning the unit on with the volume control setting up high, or whilst continually listening at high volumes.

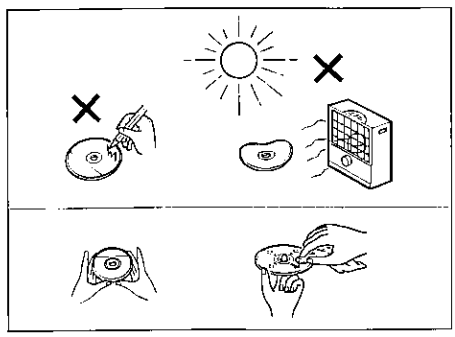
■ Condensation

Sudden temperature changes, storage or operation in an extremely humid environment may cause condensation inside the cabinet (CD pickup, tape heads, etc.) or on the transmitter LED on the remote control.
Condensation can cause the unit to malfunction.
If this happens, leave the power on with no disc (or cassette) in the unit until normal playback is possible (about 1 hour). Wipe off any condensation on the transmitter LED with a soft cloth before operating the unit.

■ Care of compact discs

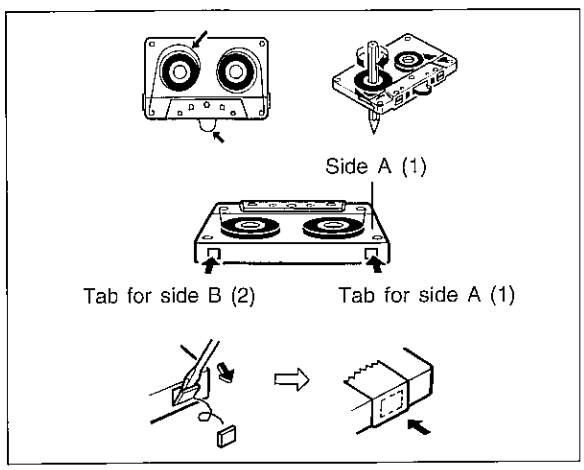
Compact discs are fairly resistant to damage, however mistracking can occur due to an accumulation of dirt on the disc surface.
Follow the guidelines below for maximum enjoyment from your CD collection and player.

- Do not write on either side of the disc, particularly the non-label side. Signals are read from the non-label side. Do not mark this surface.
- Keep your discs away from direct sunlight, heat, and excessive moisture.
- Always hold the CDs by the edges. Fingerprints, dirt, or water on the CDs can cause noise or mistracking. If a CD is dirty or does not play properly, clean it with a soft, dry cloth, wiping straight out from the centre, along the radius.

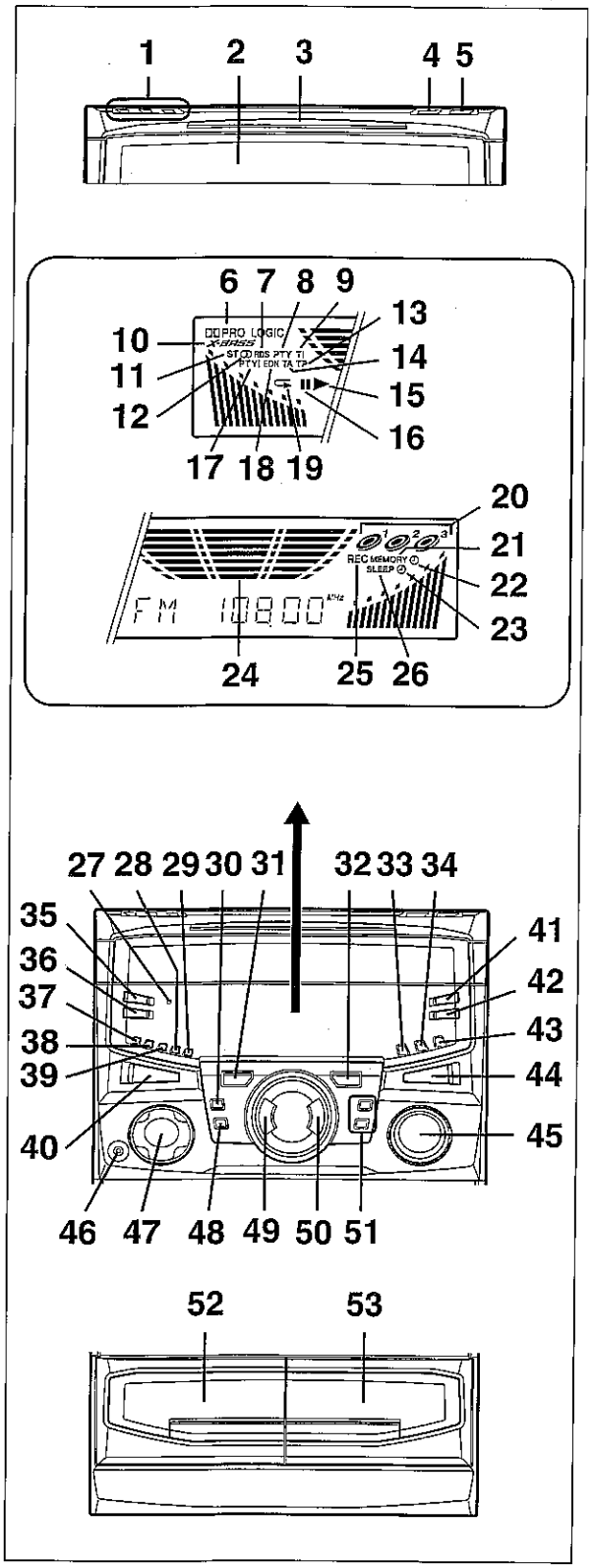


■ Cassette tape

- For playback, use normal or low-noise tape for the best sound. (Metal or CrO_2 tape is not recommended.)
  For recording, use only normal tape.
- Do not use C-120 tapes, tapes with large diameter reels, or poor-quality tapes, as they may cause malfunctions.
- Before loading a tape into the cassette compartment, tighten the slack with a pen or pencil.
- Cassettes have removable tabs which prevent accidental recording or erasing from taking place. Removing the tab will protect the corresponding side from being erased. Cover the tab holes with adhesive tape to erase or record again.
- TAPE 1: Playback only.
  TAPE 2: Playback or record.



NAMES OF CONTROLS AND INDICATORS



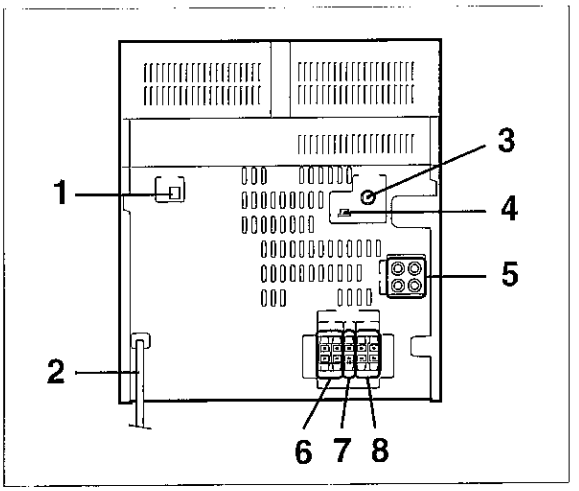
■ Front panel

1. Disc Number Selector Buttons
2. Disc Tray
3. Multi Indicator
4. Disc Skip Button
5. Open/Close Button

6. Dolby Pro Logic Indicator
7. RDS Indicator
8. Programme Type Indicator
9. Traffic Information Indicator
10. Extra Bass Indicator
11. FM Stereo Mode Indicator
12. FM Stereo Indicator
13. Traffic Programme Indicator
14. Traffic Announcement Indicator
15. (CD) Play Indicator
16. (CD) Pause Indicator
17. Dynamic PTY Indicator
18. EON Indicator
19. (CD) Repeat Indicator
20. (CD) Disc Number Indicators
21. (CD/TUNER) Memory Indicator
22. Timer Play Indicator
23. Timer Record Indicator
24. Spectrum Analyzer/Volume Level Indicator
25. (TAPE 2) Record Indicator
26. Sleep Indicator

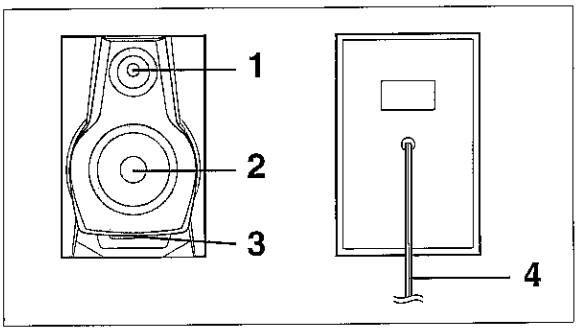
27. Timer Set Indicator
28. (TUNER) Display Mode Selector Button
29. (TUNER) Station Selector Button
30. (TAPE 2) Record Pause Button
31. (CD) Track Down/Review Button
    (TUNER) Preset Down Button
    (TAPE 2) Rewind Button
32. (CD) Track Up/Cue Button
    (TUNER) Preset Up Button
    (TAPE 2) Fast Forward Button
33. Bypass Button
34. Normal Button
35. Timer/Sleep Button
36. Clock Button
37. (TUNER) Programme Type/Traffic Information Search Button
38. (TUNER) EON Button
39. (TUNER) ASPM Button
40. On/Stand-by Button
41. Equalizer Mode Selector Button
42. Dimmer Button
43. Phantom Button
44. Extra Bass/Demo Mode Button
45. Volume Up/Down Buttons
46. Headphone Socket
47. Function Selector Buttons
48. Memory/Set Button
49. (CD/TAPE) Stop Button
50. (TAPE) Play Button
    (CD) Play/Repeat Button
51. Tuning and Time Up/Down Buttons

52. (TAPE 1) Cassette Compartment
53. (TAPE 2) Cassette Compartment



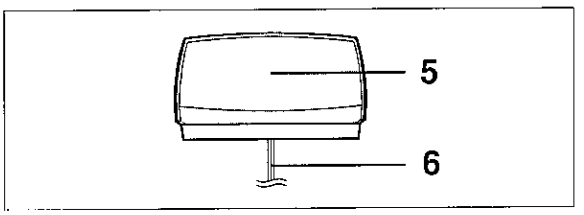
■ Rear panel

1. CD Digital Output Socket
2. AC Power Lead
3. FM 75 Ohms Aerial Socket
4. AM Loop Aerial Socket
5. Video/Auxiliary (Audio Signal) Input Sockets
6. Surround Speaker Terminals
7. Centre Speaker Terminals
8. Front Speaker Terminals



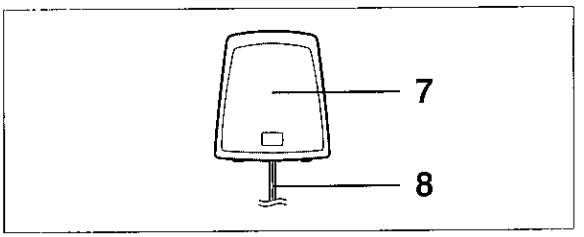
■ Front speaker

1. Tweeter
2. Woofer
3. Bass Reflex Duct
4. Speaker Wire



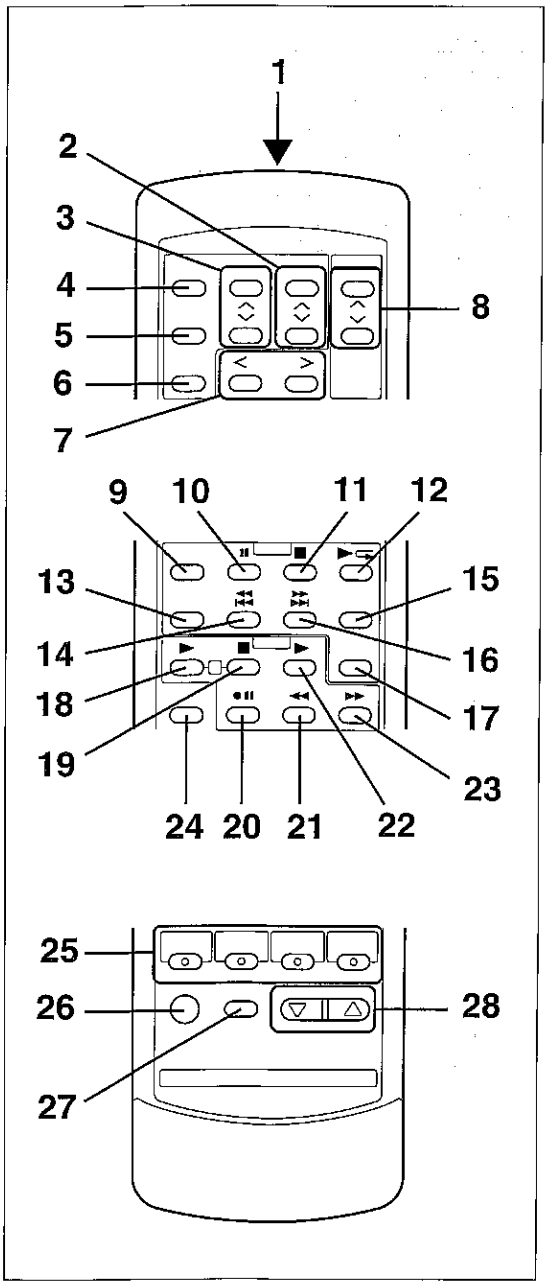
■ Centre speaker

5. Full-Range Speaker
6. Speaker Wire



■ Surround speaker

7. Full-Range Speaker
8. Speaker Wire



■ Remote control

1. Remote Control Transmitter LED

2. Surround Level Buttons
3. Centre Level Buttons
4. Dolby Pro Logic Button
5. Centre Mode Button
6. Test Tone Button
7. Balance Control Buttons

● Tuner control section

8. Preset Up/Down Buttons

● CD control section

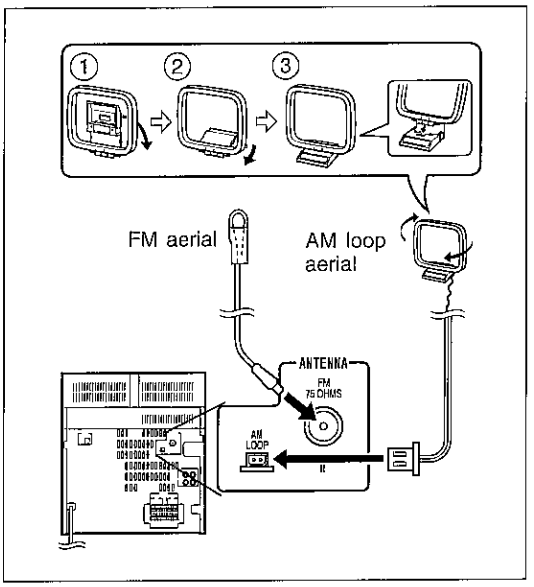
9. Memory Button
10. Pause Button
11. Stop Button
12. Play/Repeat Button
13. Clear Button
14. Track Down/Review Button
15. Random Button
16. Track Up/Cue Button
17. Disc Skip Button

● Tape control section

18. (TAPE 1) Play Button
19. (TAPE 1/2) Stop Button
20. (TAPE 2) Record Pause Button
21. (TAPE 2) Rewind Button
22. (TAPE 2) Play Button
23. (TAPE 2) Fast Forward Button

24. Equalizer Mode Button
25. Function Selector Buttons
26. On/Stand-by Button
27. Extra Bass Button
28. Volume Up/Down Buttons

- Unplug the AC power lead from the AC socket before connecting or disconnecting any component.



■ Aerial connection

Supplied FM aerial

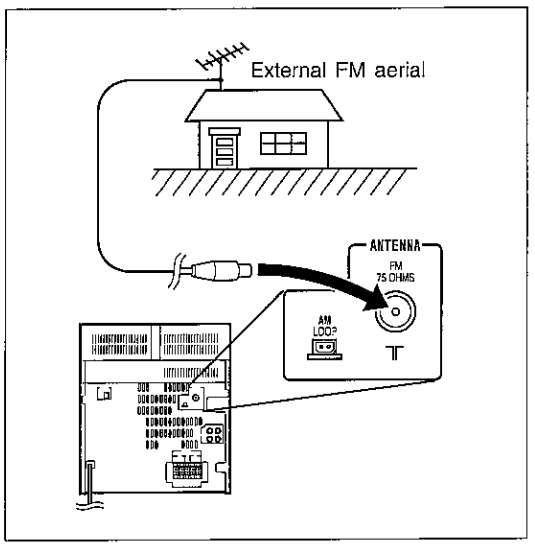
Connect the FM aerial wire to the FM 75 OHMS socket and position the FM aerial wire in the direction where the strongest signal can be received.

Supplied AM loop aerial

Connect the AM loop aerial wire to the AM LOOP socket. Position the AM loop aerial for optimum reception.
Place the AM loop aerial on a shelf, etc., or attach it to a stand or a wall with screws (not supplied).

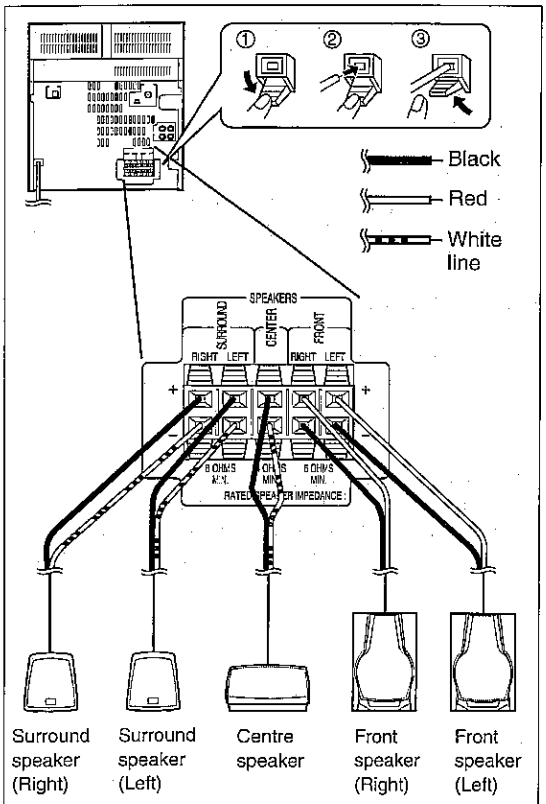
Notes:

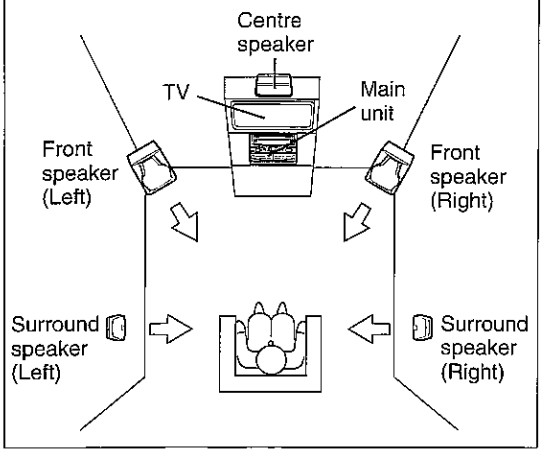
- Do not place the aerial on the main unit as it may result in noise pickup from the internal digital electronics.
  Place the aerial away from the unit for better reception.
- If the AM loop aerial and the FM aerial wire are placed near the AC power lead, interference may result.

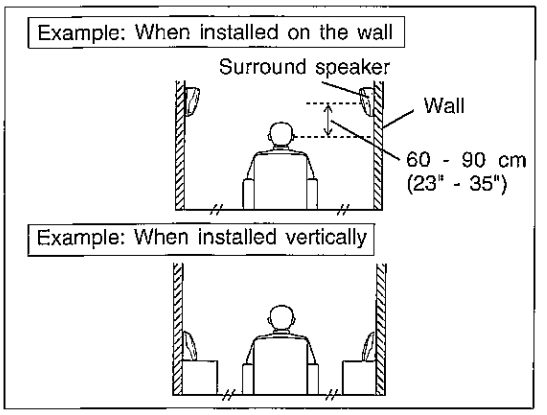


External FM aerial

Use an external FM aerial if you require better reception.
Consult your dealer.







■ Speaker connection

Connect the speaker wires to the SPEAKER terminals as shown.

Front speakers

- Connect the black wire to the minus (–) terminal, and the red wire to the plus (+) terminal.

Centre speaker and surround speakers

- Connect the wire with the white line to the minus (–) terminal and the plain wire to the plus (+) terminal.

Caution:

- Do not mix the right channel and left channel wiring when connecting the speakers to the unit.
- Do not let bare speaker wires touch each other as this may damage the amplifier and/or speakers.
- Do not allow any objects to fall into or to be placed in the bass reflex ducts.
- Do not stand or sit on the speakers. If the speakers fall or collapse, you may be injured.
- When you use speakers other than the speakers included with this unit, if their impedance is lower than that specified for each speaker type, the unit may be damaged.
  Front speakers: 6 ohms
  Centre speaker: 4 ohms
  Surround speakers: 8 ohms

Placing the speakers

To enjoy the surround effect, add the extra speakers in addition to the front speakers. Position them as shown in the illustration.

TV monitor location:

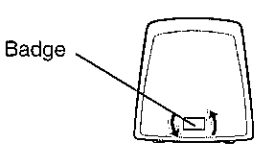
Place the centre speaker near the T.V.
The close proximity of this speaker will not adversely affect the monitor as the speaker is shielded.

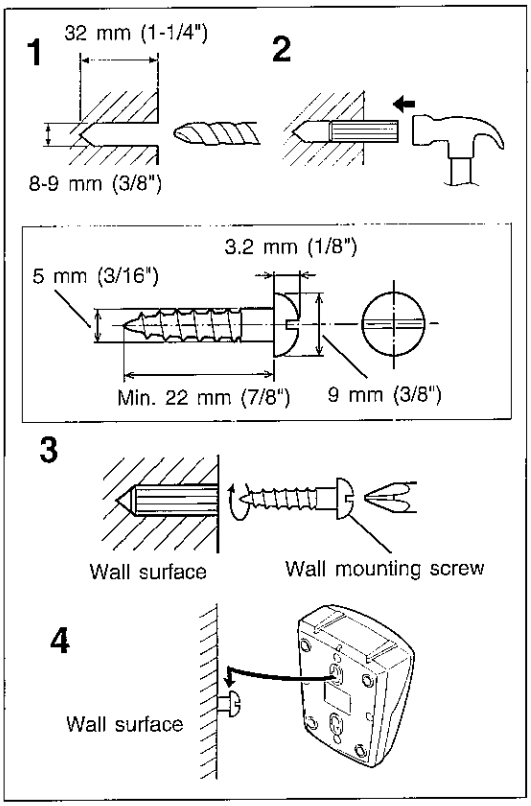
- Depending on the particular location of a TV monitor, colour variations may appear on the TV monitor screen. If this occurs, move the system's speakers away from the TV monitor and turn it off. After 15 - 30 minutes, turn on the TV monitor again. The TV monitor's own demagnetising function should eliminate the variations.
  If the colour variations still appear, move the system further away from the TV monitor.
- If any kind of magnet or an electromagnet is placed too close to the TV monitor and the system, irregular colours may appear on the TV monitor screen.

● Surround speakers

The surround speakers should be installed on the wall. Install them 60 - 90 cm (23" - 35") above the height of your ears when seated, if possible.

When the surround speakers are installed vertically, the speaker badge will be upside down.
In this case, you can adjust the badge to face the proper direction. Just turn it by hand.





■ To mount the surround speakers on the wall

The design of the surround speakers allows them to be hung on the wall.
Be sure to use the type and size of screw that is shown to the left.

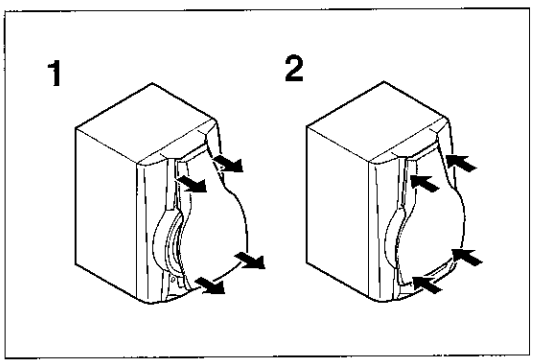
1 Make a hole in the wall using a drill.

2 Drive a wall mount plug into the hole using a hammer. Drive the wall mount plug in until it is flush with the wall surface.

3 Drive one screw into the wall mount plug for each speaker as shown in the illustration.

- Drive the screws, so there is about a 5 mm (3/16") space between the wall and the head of the screw.

4 Mount the surround speaker on the wall so that the screw head is inserted into the slot on the surround speaker.



■ Removing the speaker grilles

(Front speakers only)

1 Remove the lower part of the speaker grille first.

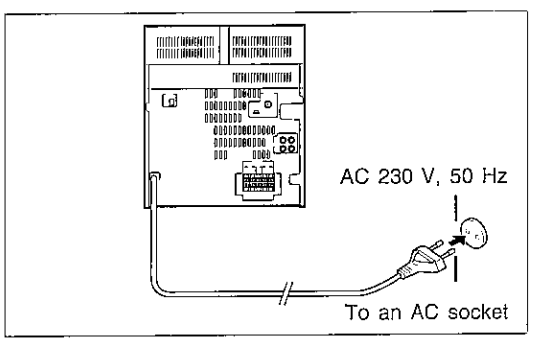
2 Remove the upper part of the speaker grille.

- The speaker grilles on the centre and surround speakers are not removable.

Caution:
When the speaker grilles are removed, the speaker diaphragms are exposed. Make sure nothing comes into contact with the speaker diaphragms.

■ Mounting the speaker grilles

Fit the four posts on the speaker grille into the mounting holes and push them lightly with the palm of your hand to secure.



■ Connecting the AC power lead

- After connecting the speakers, plug the AC power lead into a convenient AC socket.
- Unplug the AC power lead from the AC socket if the unit will not be in use for a prolonged period of time.

(Main unit operation)

■ Demo mode

When the AC power lead is first connected, the unit will enter the demonstration mode and the words will scroll across the display continuously.

Note:
- When the power is on, the X-BASS/DEMO button can be used to select the extra bass mode.

To cancel the demonstration mode:
In the power stand-by mode (demonstration mode), press the X-BASS/DEMO button to cancel the demonstration mode and to enter the low power consumption mode.
When the X-BASS/DEMO button is pressed again, the unit will return to the demonstration mode.

Note:
- When the unit is in the low power consumption mode, the display will disappear.

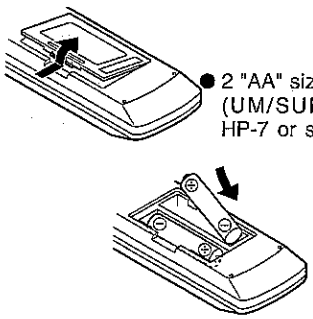
(Main unit operation)

■ To change the brightness of the display

Press the DIMMER button.
- The display will be made dimmer.

Note:
- When you change the brightness of the display, the multi indicator will not appear.

To return to the original brightness:
Press the DIMMER button again.



■ Remote control

- When inserting or removing the batteries, push them towards the ⊖ battery terminals.
- Installing the batteries incorrectly may cause the unit to malfunction.

Precautions for battery use:
- Insert the batteries according to the direction indicated in the battery compartment.
- Replace all old batteries with new ones at the same time.
- Do not mix old and new batteries.
- Remove the batteries if they are weak or if the unit will not be used for long periods of time. This will prevent potential damage due to battery leakage.

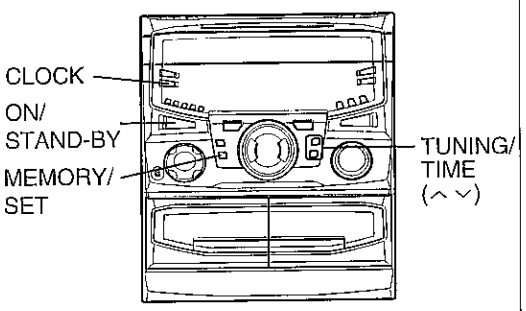
Caution:
Do not use rechargeable batteries (nickel-cadmium battery, etc.).

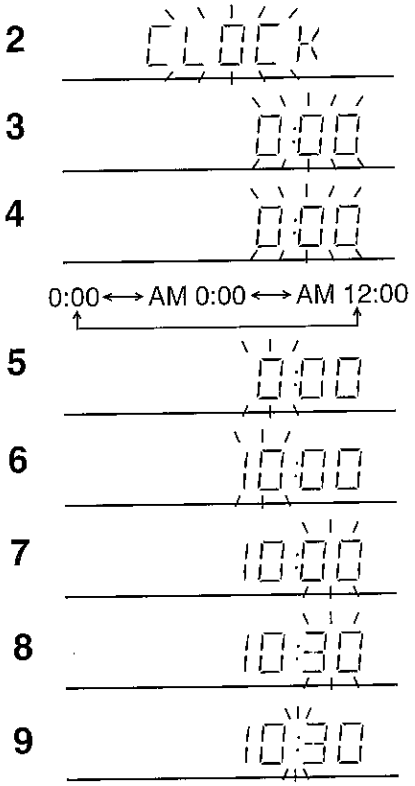
Notes concerning use:
- Replace the batteries if the operating distance is reduced or if the operation becomes erratic.
- Periodically clean the transmitter LED on the remote control and the sensor on the main unit with a soft cloth.
- Exposing the sensor on the main unit to strong light may interfere with operation. Change the lighting or the direction of the unit.
- Keep the remote control away from moisture, excessive heat, shock, and vibrations.

SETTING THE CLOCK

(Main unit operation)

In this example, the clock is set for the 24-hour (0:00) system.





1 Press the ON/STAND-BY button to enter the stand-by mode.

2 Press the CLOCK button.

3 Within 5 seconds, press the MEMORY/SET button.

4 Press the TUNING/TIME (∨ or ∧) button to select the time display mode.

"0:00" → The 24-hour display will appear. (0:00 - 23:59)
"AM 0:00" → The 12-hour display will appear. (AM 0:00 - PM 11:59)
"AM 12:00" → The 12-hour display will appear. (AM 12:00 - PM 11:59)

- Note that this can only be set when the unit is first installed or it has been reset (see page 30).

5 Press the MEMORY/SET button.

6 Press the TUNING/TIME (∨ or ∧) button to adjust the hour.

- Press the TUNING/TIME (∨ or ∧) button once to advance the time by 1 hour. Hold it down to advance continuously.
- When the 12-hour display is selected, "AM" will change automatically to "PM".

7 Press the MEMORY/SET button.

8 Press the TUNING/TIME (∨ or ∧) button to adjust the minutes.

- Press the TUNING/TIME (∨ or ∧) button once to advance the time by 1 minute. Hold it down to change the time in 5 minute intervals.
- The hour setting will not advance even if minutes advance from "59" to "00".

9 Press the MEMORY/SET button.

- The clock starts operating from "0" seconds. (Seconds are not displayed.)

To see the time display:

Press the CLOCK button.

- The time display will appear for about 5 seconds.

Note:

- The clock display will flash on and off at the push of the CLOCK button when the AC power supply is restored after a power failure occurs or after the AC power lead is disconnected. If this happens, follow the procedure below to change the clock time.

To change the clock time:

① Press the CLOCK button.

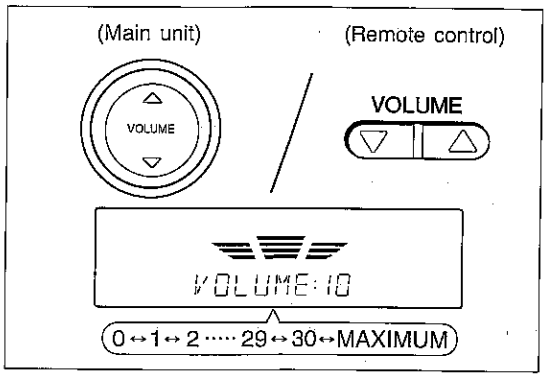
② Within 5 seconds, press the MEMORY/SET button.

③ Perform steps 6 - 9 above.

To change the time display mode:

① Perform steps 1 - 2 in the section "RESETTING THE MICROCOMPUTER", on page 30.

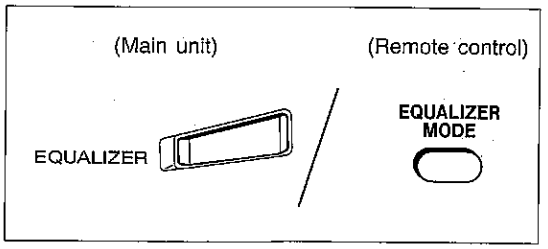
② Perform steps 1 - 9 above.



■ Volume

Press the VOLUME △ button to increase the volume and the VOLUME ▽ button to decrease the volume.

- The volume display can be changed within the range of "0" to "MAXIMUM".

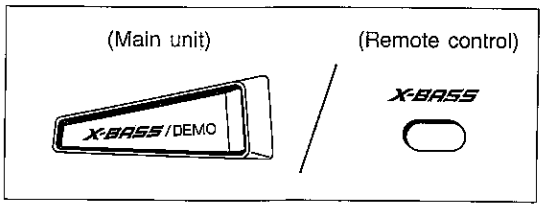


■ Pre-programmed equalizer

When the EQUALIZER (EQUALIZER MODE) button is pressed, the current mode setting will be displayed. To change to a different mode, press the EQUALIZER (EQUALIZER MODE) button repeatedly.

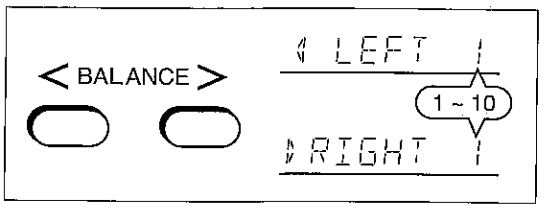
FLAT → HEAVY-1 → HEAVY-2 → SOFT-2 ← SOFT-1 ← VOCAL ←

FLAT: The sound is not modified.
HEAVY-1: Bass and treble are slightly emphasised.
HEAVY-2: Bass and treble are emphasised more.
VOCAL: Vocals (midrange tones) are emphasised.
SOFT-1: Treble is cut a little.
SOFT-2: Treble is reduced a lot.



■ Extra bass (X-BASS)

Press the X-BASS button to emphasise the bass region of the frequency spectrum.
"X-BASS" will appear.
Press the X-BASS button again to cancel the extra bass mode.
"X-BASS" will disappear.



■ Balance

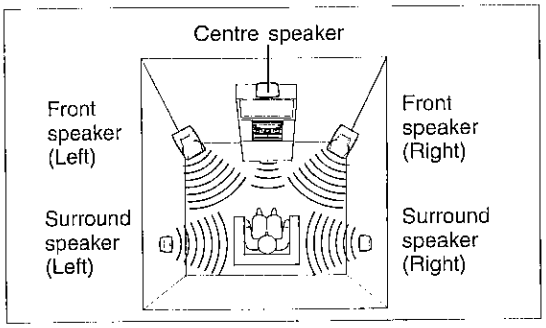
(Remote control operation)

Press the BALANCE < (LEFT) button to decrease the level of the right speaker, and press the BALANCE > (RIGHT) button to decrease the level of the left speaker.

■ Dolby Pro Logic Surround mode

Video and Laser Disc software programmes carrying the DOLBY SURROUND trademark are recordings that contain the same Dolby Surround data as used in movie theatres.

The Dolby Pro Logic Surround mode uses Dolby Surround data to bring the full presence experienced in a movie theatre into your home.
To use this mode, you must connect the surround and centre channel speakers.
Before playing a video (or Laser Disc) software programme carrying the DOLBY SURROUND trademark, be sure to complete the "Dolby Pro Logic Surround setup" as follows.



Dolby Pro Logic Surround setup:

(Remote control operation)

1 Press the ON/STAND-BY button to turn the power on.

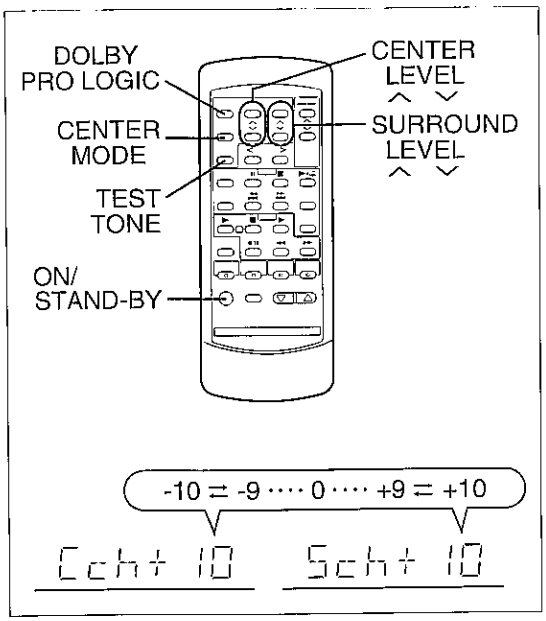
2 Press the DOLBY PRO LOGIC button.
● The NORMAL or PHANTOM button will light.

3 Select the centre mode using the CENTER MODE button.

NORMAL: The centre speaker is used.
PHANTOM: Use this mode when a centre speaker is not connected. The centre channel signals are output through the front speakers.

● The selected centre mode is automatically stored in memory and will be used the next time you activate DOLBY PRO LOGIC or until it is changed.

4 Press the TEST TONE button.
● The test tone is a tone that moves from one speaker to the next, taking 2 seconds to go from speaker to speaker.



In NORMAL mode:

Left (L ch) → Centre (C ch) → Right (R ch) → Surround (S ch)

In PHANTOM mode:

Left (L ch) → Right (R ch) → Surround (S ch)

5 Adjust the centre speaker volume or the volume of the surround speakers.

To adjust the centre speaker volume to match the level of the front speakers:
Press the CENTER LEVEL ∧ button to increase the volume and the CENTER LEVEL ∨ button to decrease the volume.

To adjust the volume of the surround speakers to match the level of the front speakers:
Press the SURROUND LEVEL ∧ button to increase the volume and the SURROUND LEVEL ∨ button to decrease the volume.

6 After adjusting the speaker volume, press the TEST TONE button.
● The test tone will stop.

Notes:
● Be sure to adjust the sound from your favorite listening position.
● The volume is adjusted in 1 dB steps up or down each time you press the CENTER LEVEL button or the SURROUND LEVEL button.
● The volume settings for the centre and surround speakers are stored in memory for future use. However, if the power is disconnected or there is a power failure, the levels will return to their initial settings.

Dolby Pro Logic Surround playback:

1 Press the NORMAL or PHANTOM button on the main unit or the DOLBY PRO LOGIC button on the remote control.
● The NORMAL or PHANTOM button will illuminate, and the unit will enter the Dolby Pro Logic Surround mode.

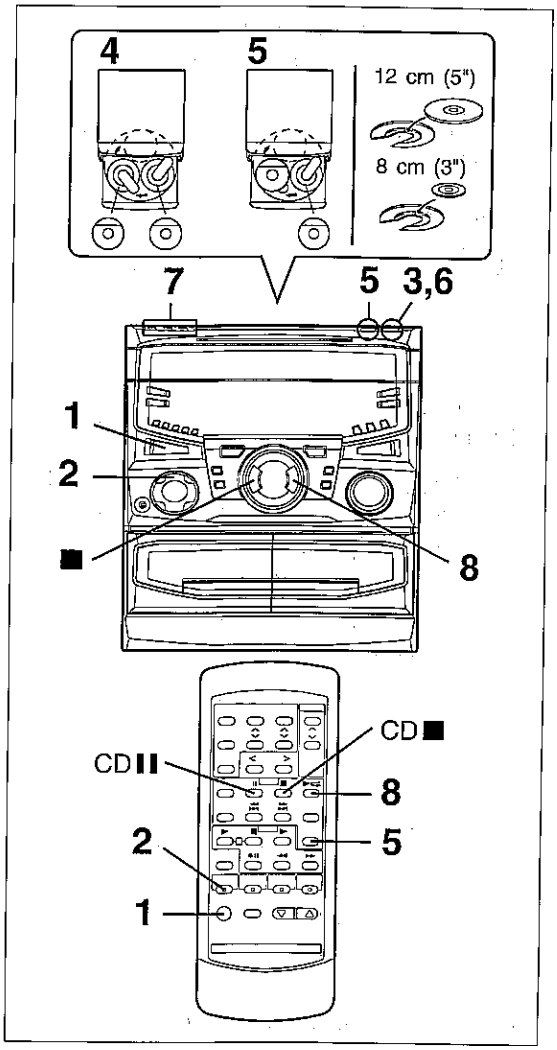
2 Select the centre mode using the CENTER MODE button.

NORMAL: The centre speaker is used.
PHANTOM: Use this mode when a centre speaker is not connected. The centre channel signals are output through the front speakers.

3 Play the video software programme.

4 To cancel the Dolby Pro Logic Surround mode, press the BYPASS button on the main unit or the DOLBY PRO LOGIC button on the remote control.
● The BYPASS button will light.

Notes:
● You cannot use the Dolby Pro Logic Surround feature with headphones.
● If you use headphones, cancel the Dolby Pro Logic Surround mode.
Even after the headphones are connected, if the unit is in the Dolby Pro Logic Surround mode, sound will still be heard from the surround and centre speakers.



■ CD playback

1 Press the ON/STAND-BY button to turn the power on.

2 Press the CD button.

3 Press the OPEN/CLOSE button to open the disc tray.

4 Place the CD(s) on the disc tray, label side up.

- CDs can be placed on any open position on the disc tray.
- Be sure to place 8 cm (3") CD(s) in the middle of the disc trays.

Caution:
Do not stack CDs in the tray.
This can damage the player and the CDs.

5 When loading a third disc, press the DISC SKIP button to turn the disc tray, then place the CD in the open position.

6 Press the OPEN/CLOSE button to close the disc tray.

- The total number of tracks and the total playing time for one disc will be displayed. At this time, the disc number indicator is flashing.

7 Press the desired disc number button (⊖ 1 - ⊖ 3).

8 Press the ▶/⊏ (▶⊏) button.

- Playback will begin from track 1 on the disc you have selected to play.
- After the disc finishes playing, the next disc will automatically play.
- When there is no CD in one of the disc 1 - 3 positions, that position will be skipped and the next CD will be played.
- When the last track on the third disc has finished playing, the unit will stop automatically.

Caution:

- **Do not carry the unit with discs left in the disc trays. The discs may come loose inside the unit and they may be damaged or cause damage to the unit. This may also cause malfunctions.**
- Do not place two CDs in one disc position.
- Do not push the disc tray whilst it is moving.
- Do not attempt to turn the disc tray by hand. This may cause malfunctions.
- If the power fails whilst the tray is open, wait until the power is restored.
- If the disc tray is stopped forcibly, "ERR" will appear in the display and the unit will not function. If this occurs, press the ON/STAND-BY button to enter the stand-by mode and then turn the power on again.
- If TV or radio interference occurs during CD operation, move the unit away from the TV or radio.
- If a disc is damaged, dirty, or loaded upside down, the disc will be skipped and the next disc will automatically play.

To interrupt playback:

① Press the CD ❚❚ button on the remote control.

- "❚❚" will appear.

② Press the ▶⊏ button to resume playback from the same point.

To stop playback:

Press the ■ (CD ■) button.

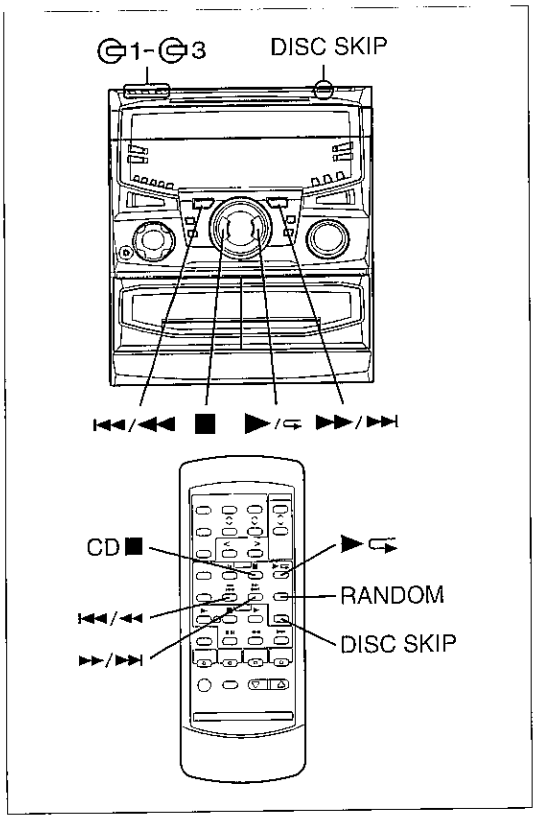
To remove the CDs:

Whilst in the stop mode, press the OPEN/CLOSE button.

- The disc tray will open. Remove the two discs. Then, press the DISC SKIP button to rotate the disc tray and remove the remaining disc.

After use:

Press the ON/STAND-BY button to enter the stand-by mode.



■ Disc number selection

1 When stopped, press the DISC SKIP button.

2 Press the ▶/⊏ (▶⊏) button.

- The next disc playback will begin, after which each following disc will be played sequentially.

Notes:
- When the DISC SKIP button is pressed during playback, playback will begin automatically from the next disc. (It is not necessary to press the ▶/⊏ (▶⊏) button.)
- When one of the disc number buttons (⑮1-⑮3) is pressed during playback, playback of the selected disc will begin automatically. (It is not necessary to press the ▶/⊏ (▶⊏) button.)

■ APSS (Auto Program Search System)

APSS automatically locates the beginning of any track.

To listen again to the track being played:
Press the ⏮◀◀ button for less than 0.5 seconds during playback.

To move to the beginning of the next track:
Press the ▶▶⏭ button for less than 0.5 seconds during playback.

- To skip a number of tracks at one time, press the ⏮◀◀ or ▶▶⏭ button repeatedly until the desired track number is shown.
- To start playback from a desired track, press the ⏮◀◀ or ▶▶⏭ button whilst in the stop mode to select the track number, and then press the ▶/⊏ (▶⊏) button.

Note:
- APSS can only search for music on a single disc.

■ Random play

(Remote control operation)
The tracks on the disc(s) can be played in random order automatically.

1 Load a disc(s) and close the disc tray.

2 Press the RANDOM button to begin random play.

- "R" will appear.

Notes:
- When using random play, be sure to press the ■ (CD ■) button after you are through listening. Otherwise, the disc(s) will play continuously.
- In random play the unit will select and play tracks automatically. (You cannot select the order of the tracks.)

To cancel random play:
Press the ▶/⊏ (▶⊏) button.
- "R" will go out.

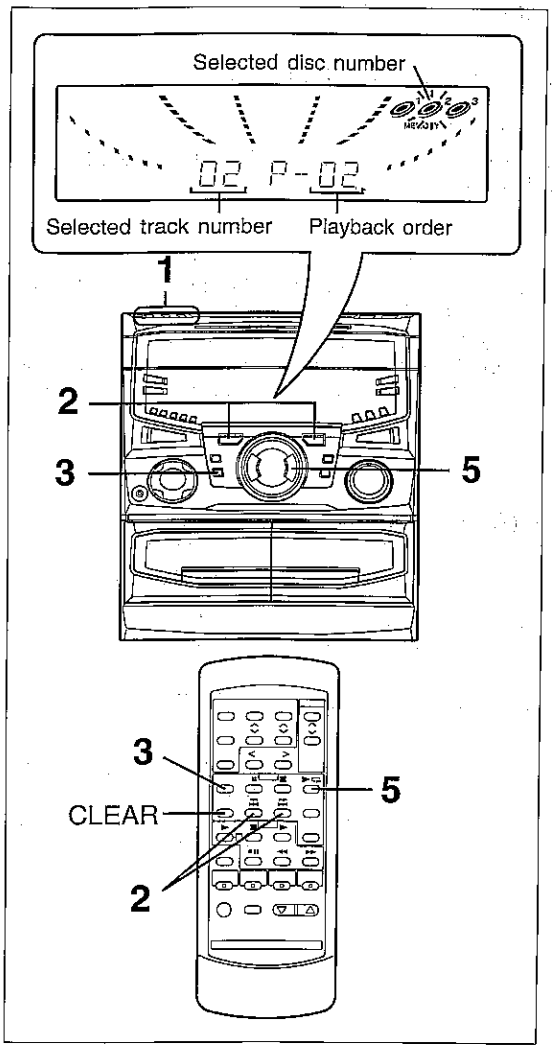
■ Cue and review

1 Load a disc and begin playback.

2 Hold down the ▶▶ button for audible fast forward, and hold down the ◀◀ button for audible fast reverse.

3 Normal playback will resume when the ◀◀ or ▶▶ button is released.

Notes:
- When the end of the disc is reached whilst cueing, "END" will appear in the display. (Even though the next disc has been loaded, the disc will not be switched.)
  Press the ◀◀ button for fast reverse or press the ■ (CD ■) button to stop CD operation.
- If the beginning of the disc is reached whilst reviewing, the mode will automatically switch to normal playback at that point.



■ APMS (Automatic Programmable Music Selector)

You can playback the tracks on the CDs in the disc 1 - 3 positions in any order desired. By specifying the disc numbers from 1 to 3, and the track numbers from 1 to 99, you can choose up to 32 selections for playback in the order you like.

1 When in the stop mode, use the disc number buttons (ⓒ 1 - ⓒ 3) to select the desired disc number.

2 Press the ⏮ or ⏭ button to select the desired track.

3 Press the MEMORY/SET (MEMORY) button.

- "MEMORY" will appear to show that the programmed sequence is being entered into memory.

4 Repeat steps 1 - 3 for any other track. Up to 32 tracks can be programmed.

- If you make a mistake whilst in the programming mode ("MEMORY" will appear) or if you wish to change your selections, the programmed tracks can be cleared by pressing the CLEAR button. The tracks will be cleared sequentially, starting with the last track entered.

5 Press the ▶/⊂ (▶⊂) button to start playback of programmed selections.

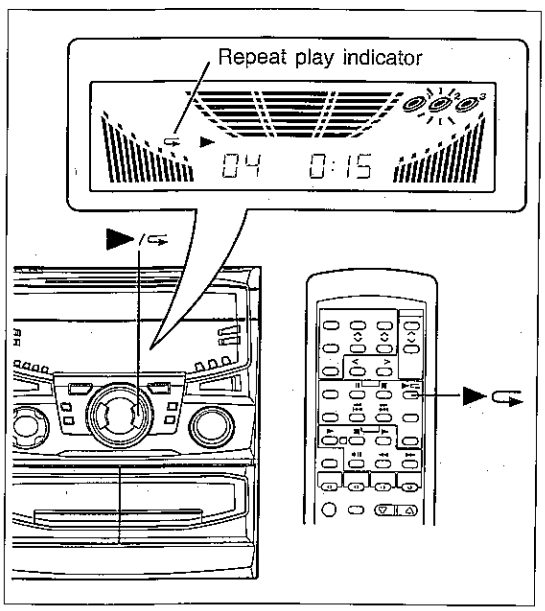
To clear the programmed selections:

Press the CLEAR button on the remote control whilst the disc is stopped.

- Each time the button is pressed, one track will be cleared, beginning with the last track programmed.

Notes:

- Opening the disc tray automatically cancels the programmed sequence.
- Even if you press the ON/STAND-BY button to enter the stand-by mode or the function is changed from CD to some other function, the programmed selections will not be cleared.
- During APMS operation, random play is not possible.



■ Repeat play

All tracks on up to 3 discs, or a programmed sequence can be continuously repeated.

To repeat all tracks on up to 3 discs:

Press the ▶/⊂ (▶⊂) button twice.

- "⊂" will appear.

To repeat a programmed sequence:

1 Programme a sequence of up to 32 tracks.

2 Press the ▶/⊂ (▶⊂) button twice.

- "⊂" will appear.

To cancel repeat play:

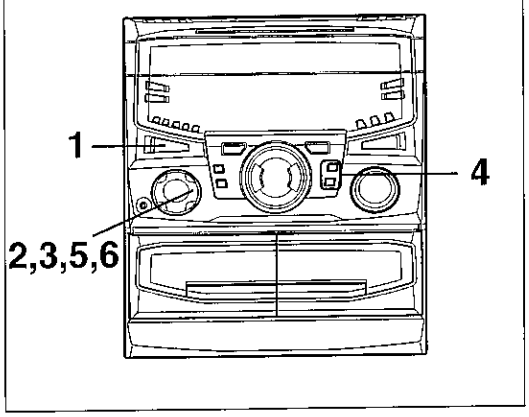
Press the ▶/⊂ (▶⊂) button again.

- "⊂" will go out.

Note:

- When using repeat play, be sure to press the ■ (CD ■) button after you are through listening.
  Otherwise, the CD(s) will play continuously.

(Main unit operation)



■ Tuning

1 Press the ON/STAND-BY button to turn the power on.

2 Press the TUNER (BAND) button.

3 Press the TUNER (BAND) button to select the desired frequency band. (FM ST, FM or AM)

4 Press the TUNING/TIME (∨ or ∧) button to tune into the desired station.

Manual tuning:

Press the TUNING/TIME (∨ or ∧) button as many times as required to adjust the frequency shown on the display to the frequency of the desired station.

Auto tuning:

When the TUNING/TIME (∨ or ∧) button is pressed for more than 0.5 seconds, scanning will start automatically and the tuner will stop at the first receivable broadcast station.

Notes:

- When radio interference occurs during auto scan tuning, auto scan tuning may stop automatically at that point.
- If a weak station signal is found during auto scan tuning, the station will be skipped.
- To stop the auto tuning, press the TUNING/TIME (∨ or ∧) button again.
- When an RDS (Radio Data System) station is tuned in, the frequency will be displayed first, and then the RDS indicator will light, Finally, the station name will appear.

5 To receive an FM stereo transmission, press the TUNER (BAND) button so that the "ST" indicator on the display lights up.

- "ꝺ" will appear when an FM broadcast is in stereo.

6 If the FM reception is weak, press the TUNER (BAND) button so that the "ST" indicator goes out.

- The reception changes to monaural, the sound becomes clearer.

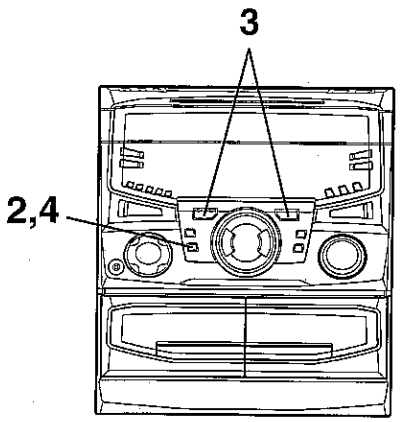
After use:

Press the ON/STAND-BY button to enter the stand-by mode.

Note:

- The last station tuned in will be recalled, even after changing the tuning band or the function, or after switching the unit to the stand-by mode.

(Main unit operation)



■ Preset tuning

You can store up to 40 stations in memory (40 stations consisting of any combination of FM and AM stations you like) and recall them at the push of a button.

To enter stations into memory:

1 Perform steps 1 - 6 in the "Tuning" section.

2 Press the MEMORY/SET button.

- "MEMORY" and the preset channel number will flash.

3 Within 30 seconds, press the PRESET (∨ or ∧) button to make the preset channel number flash in the display.

- Store the stations in memory, in order, starting with preset channel 1.

4 Within 30 seconds, press the MEMORY/SET button to store that station in the selected station preset number memory.

- If the "MEMORY" and preset number indicators go out before the station is memorised, repeat the operation from step 2.

5 Repeat steps 1 - 4 to set other preset stations, or to change a preset station.

- When a new station is stored in the selected station preset number memory, the contents previously memorised will be erased.
- To store an RDS station in memory, perform steps 2 - 4 whilst the RDS station name is being displayed.

To recall a memorised station:

Press the PRESET (∨ or ∧) button for less than 0.5 seconds to select the desired station.

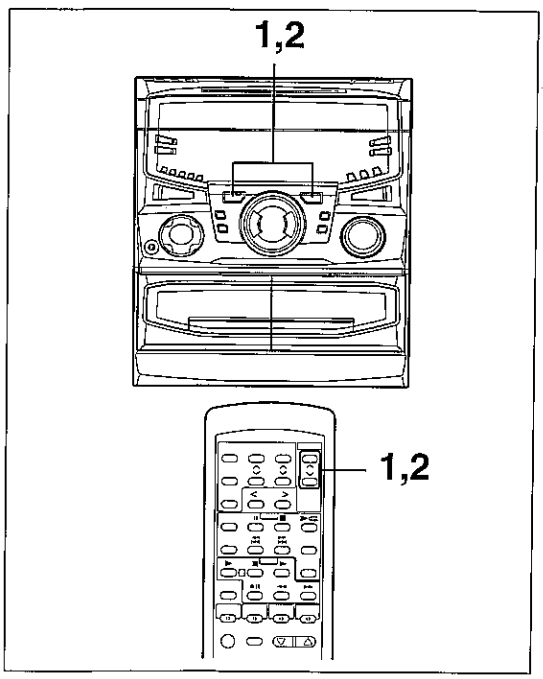
- The stations (preset channel number, frequency and frequency band) which have been stored in memory will appear in the display in numerical order, irrespective of the frequency bands.

Note:

When searching for a memorised station, do not press the PRESET button for more than 0.5 seconds.
When the PRESET button is pressed for more than 0.5 seconds, the unit will enter the preset memory scan mode.

Backup function:

The backup function protects all station presets for a few hours should there be a power failure or the AC power lead is removed from the AC socket.



■ Preset memory scan

The stations saved in the preset memory can be scanned automatically.

1 To scan the preset stations, press the PRESET (∨ or ∧) button for more than 0.5 seconds.

- The station preset number will flash and the programmed stations will be tuned in sequentially, for 5 seconds each.

2 Press the PRESET (∨ or ∧) button again to stop the memory scan at the desired station.

Note:

When the preset memory does not have any stations stored in it, the preset memory scan will not function.

RDS (Radio Data System) OPERATION

RDS is a broadcasting service which a growing number of FM stations are now providing. It allows these FM stations to send additional signals along with their regular programme signals. For example, the stations send their station names, and information about what type of programme they broadcast, such as sports or music, etc.

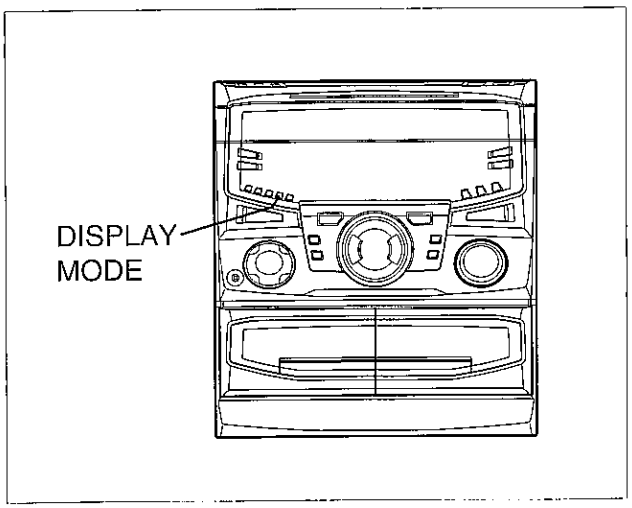
When tuned to an FM station which provide the RDS service, the RDS will appear, the station frequency (and then the station name if sent) is displayed.
The TP (Traffic Programme) will appear on the display when the received broadcast carries traffic announcements, and the TA (Traffic Announcement) will appear whilst a traffic announcement is being received.
EON will appear whilst the EON (Enhanced Other Networks information) data is being broadcast.
The PTYI (Dynamic PTY Indicator) will appear whilst the Dynamic PTY station is being received.

Note:
When the TP and TA appear at the same time, an announcement is being made.
When only the TA appears, an announcement is not being made. (See page 25.)

■ Information Provided by RDS

With the CD-PC651H, you can display three types of RDS service. To show them in the display, press the DISPLAY MODE button.
Each time you press the DISPLAY MODE button, the display will change to show the following information.

PS (Programme Service):	Station names commonly known will be displayed. "NO PS" appears if no signal is being received.
PTY (Programme Type):	Programme type will be displayed. "NO PTY" appears if no signal is being received.
RT (Radio Text):	Radio text will be displayed. "NO RT" appears if no signal is being received.
Station Frequency:	Station frequencies.



(Continued)

Descriptions of the PTY (Programme Type) codes, TP (Traffic Programme) and TA (Traffic Announcement) With the CD-PC651H, you can search for and receive the following PTY, TP and TA signals.

NEWS: Short accounts of facts, events and publicly expressed views, reportage and actuality.

AFFAIRS: Topical programme expanding or enlarging upon the news, generally in different presentation style or concept, including debate, or analysis.

INFO: Programmes whose purpose is to impart advice in the widest sense.

SPORT: Programme concerned with any aspect of sport.

EDUCATE: Programme intended primarily to educate, of which the formal element is fundamental.

DRAMA: All radio plays and serials.

CULTURE: Programmes concerned with any aspect of national or regional culture, including language, theatre, etc.

SCIENCE: Programmes about the natural sciences and technology.

VARIED: Used for mainly speech-based programmes usually of light-entertainment nature, not covered by other categories. Examples include: quizzes. panel games, personality interviews.

POP M: Commercial music, which would generally be considered to be of current popular appeal, often featuring in current or recent record sales charts.

ROCK M: Contemporary modern music, usually written and performed by young musicians.

EASY M: Current contemporary music considered to be "easy-listening", as opposed to Pop, Rock or Classical, or one of the specialized music styles, Jazz, Folk or Country. Music in this category is often but not always, vocal, and usually of short duration.

LIGHT M: Classical Musical for general, rather than specialist appreciation. Examples of music in this category are instrumental music, and vocal or choral works.

CLASSICS: Performances of major orchestral works, symphonies, chamber music etc., and including Grand Opera.

OTHER M: Musical styles not fitting into any of the other categories. Particularly used for specialist music of which Rhythm & Blues and Reggae are examples.

WEATHER: Weather reports and forecasts and Meteorological information.

FINANCE: Stock Market reports, commerce, trading etc.

CHILDREN: For programmes targeted at a young audience, primarily for entertainment and interest, rather than where the objective is to educate.

SOCIAL: Programmes about people and things that influence them individually or in groups. Includes: sociology, history, geography, psychology and society.

RELIGION: Any aspect of beliefs and faiths, involving a God or Gods, the nature of existence and ethics.

PHONE IN: Involving members of the public expressing their views either by phone or at a public forum.

TRAVEL: Features and programmes concerned with travel to near and far destinations, package tours and travel ideas and opportunities. Not for use for Announcements about problems, delays, or roadworks affecting immediate travel where TP/TA should be used.

LEISURE: Programmes concerned with recreational activities in which the listener might participate. Examples include, Gardening, Fishing. Antique collecting, Cooking, Food & Wine etc.

JAZZ: Polyphonic, syncopated music characterised by improvisation.

COUNTRY: Songs which originate from, or continue the musical tradition of the American Southern States. Characterised by a straightforward melody and narrative story line.

NATION M: Current Popular Music of the Nation or Region in that country's language, as opposed to International 'Pop' which is usually US or UK inspired and in English.

OLDIES: Music from the so-called "golden age" of popular music.

FOLK M: Music which has its roots in the musical culture of a particular nation, usually played on acoustic instruments. The narrative or story may be based on historical events or people.

DOCUMENT: Programme concerned with factual matters, presented in an investigative style.

TEST: Broadcast when testing emergency broadcast equipment or receivers.

ALARM !: Emergency announcement made under exceptional circumstances to give warning of events causing danger of a general nature.

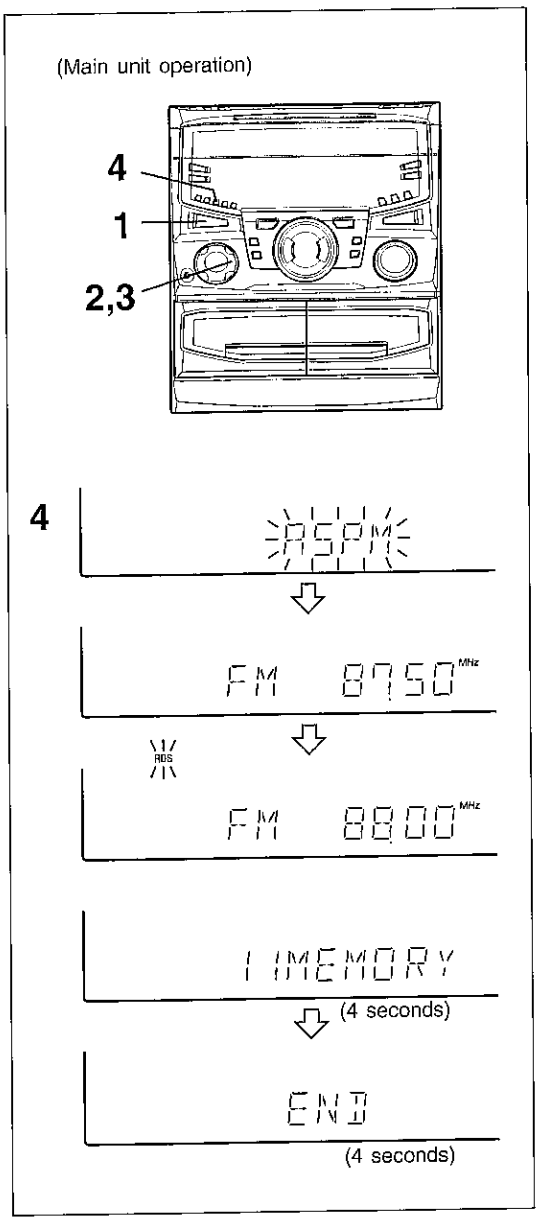
NONE: No programme type (receive only).

TP: Broadcasts which carry traffic announcements.

TA: Traffic announcements are being broadcast at present.

Note:

- When the unit is in the EON stand-by mode and a programme is selected, the unit will display "TI" instead of "TA".



■ ASPM (Auto Station Program Memory)

It is recommended that you store stations in memory using ASPM.
(This memory can be used for PTY searches, station select and EON switching.)
When the ASPM button is pressed, whilst tuned to the FM band, the RDS (Radio Data System) function will automatically search for new RDS stations. Up to 40 stations can be stored in memory. (If you have already stored some stations in memory, the number of new stations you can store will be less.)

1 Press the ON/STAND-BY button to turn the power on.

2 Press the TUNER (BAND) button.

3 Press the TUNER (BAND) button to select the FM ST or FM band.

4 Press and hold down the ASPM button for at least 3 seconds.

① After "ASPM" has flashed for about 4 seconds, scanning will start. (87.50 - 108.00 MHz)

② When an RDS station is found, the RDS will appear for a short time and the station will be stored in memory.

③ After scanning, the number of stations that have been automatically stored in memory will be displayed for 4 seconds, and then "END" will appear for 4 seconds.

Notes:

- Only RDS stations will be stored in memory in numerical order.
- If the same station is broadcasting on different frequencies, the transmission with the strongest broadcast frequency will be stored in memory.
- Any station which has the same frequency as one which has been already stored in memory will not be stored again.
- The ASPM operation can be repeated until "END" appears.
- If a 40th station is stored in memory during a scan, the scanning will stop at that station. The number of stations and "END" will each be displayed for 4 seconds.
- If no stations have been stored in memory, "END" will appear for about 4 seconds.
- If 40 stations have already been stored in memory and the ASPM button is pressed, "END" will appear immediately and the scan will be aborted.
  If you want to redo the ASPM operation from the beginning, erase the preset memory, and then perform steps 1 - 4.
- If the RDS station broadcast signals are very weak, station names may not be stored in memory.

To stop the ASPM operation before it is complete:

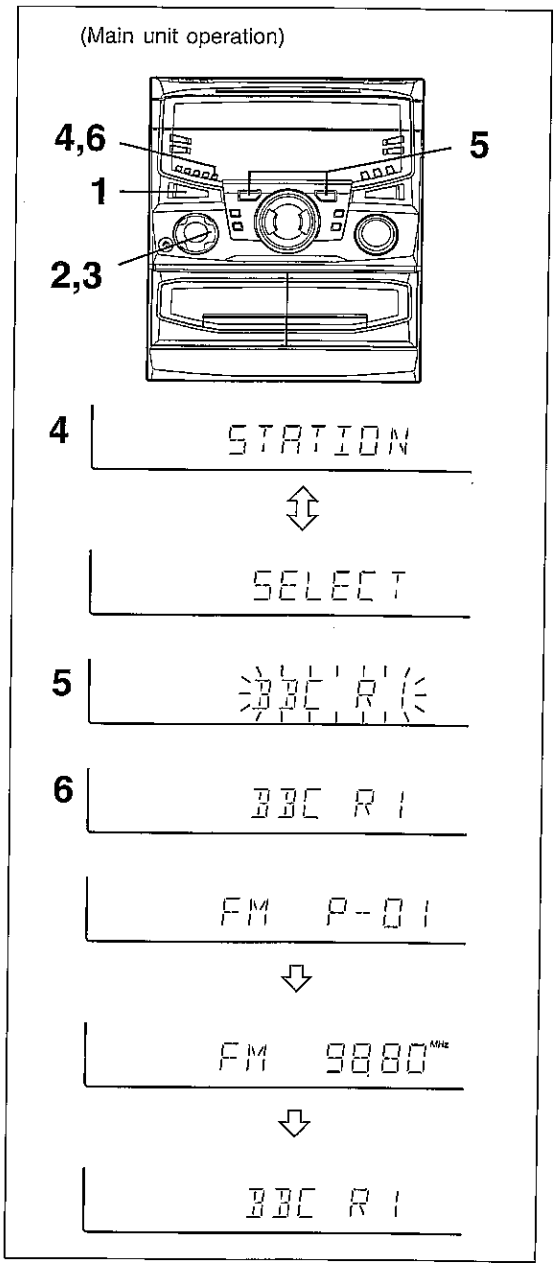
Press the ASPM button whilst it is scanning for stations.

- The stations that have already been stored in memory will be kept there.

To erase all of the contents of preset memory:

The unit is in the stand-by mode.
Hold down the TUNER (BAND) button and the PRESET ∧ button, and then press the ON/STAND-BY button.

- "TUNER CL" will appear.
- After performing this operation, all of the preset memory information will be erased.



Notes:

- When there are no station names stored in memory, you cannot use this function. In this case, when the STATION button is pressed, "NOTHING" will flash for 5 seconds, and the unit will return to the original display.
- This function can only be used when the FM band has been selected.
- The same station name can be stored in different preset channels. Therefore, when you are choosing a station name from the presets, the same station name may be encountered more than once.
- In a certain area or during certain time periods, the station names selected using the station select function may temporarily be different from the name of the station you are actually receiving.

■ To specify station names and select stations manually (station select)

You can receive a desired station by specifying the station name (BBC R1, BBC R2, etc.) from among the stations that have been stored in memory.
(ASPM is convenient for storing stations in memory.)
Before starting this operation, you must store one or more station names in memory.

1 Press the ON/STAND-BY button to turn the power on.

2 Press the TUNER (BAND) button.

3 Press the TUNER (BAND) button to select the FM ST or FM band.

4 Press the STATION button.

- "STATION" and "SELECT" will appear alternately for about 6 seconds.

5 Within 6 seconds, press the PRESET (∨ or ∧) button to select a desired station name you want.

- Each time the button is pressed, the station name will appear. If the button is held down for more than 0.5 seconds, the station name will continuously change.

6 Whilst the selected station name is flashing (within 6 seconds), press the STATION button again.

- After the selected station name has been lit for 1 second, the preset station which corresponds to the selected station name will be recalled.

To cancel the station select operation:
Press the STATION button whilst "STATION" and "SELECT" appear alternately.

To try to store a station name again, if the wrong name was stored in memory by mistake:
When you store station names in memory using the ASPM function, the correct station names may not actually be stored if there is lots of noise or if the RDS station signal is too weak.
In this case, try storing station names in memory using the following procedure.

1 Press the STATION button.

2 Within 6 seconds, press the PRESET (∨ or ∧) button to check whether the station names are correct.

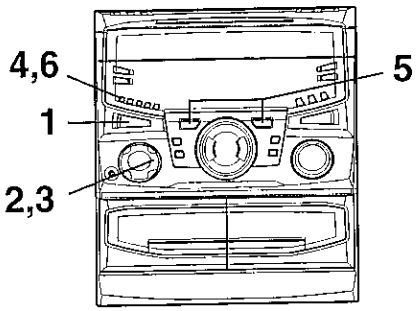
3 If you find a station name that is wrong, press the STATION button again within 6 seconds to recall the preset station, which corresponds to the station name.

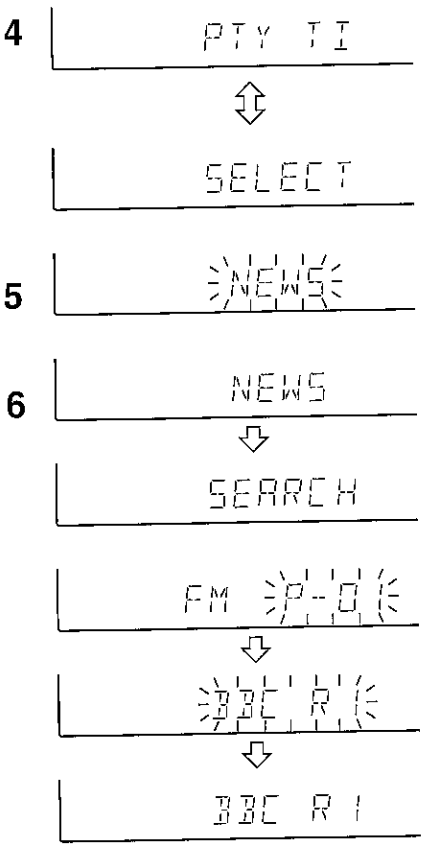
4 After the preset station has been received and the correct station name has been displayed, press the MEMORY/SET button.

5 Within 30 seconds, Press the MEMORY/SET button whilst the preset channel number is flashing.

- The new station name has been stored in memory correctly.

(Main unit operation)





■To recall stations that have been stored in memory (PTY search)

You can search for desired stations by specifying the programme type (news, sports, traffic programme, etc. ... see page 19) from among the stations that have been stored in memory.
(ASPM is convenient for storing stations in memory.)

1 Press the ON/STAND-BY button to turn the power on.

2 Press the TUNER (BAND) button.

3 Press the TUNER (BAND) button to select the FM ST or FM band.

4 Press the PTY.TI SEARCH button.

- "PTY TI" and "SELECT" will appear alternately for about 6 seconds.

5 Within 6 seconds, press the PRESET (∨ or ∧) button to select the programme type you want.

- Each time the button is pressed, the programme type will appear. If the button is held down for more than 0.5 seconds, the programme type will appear continuously.

6 Whilst the selected programme type is flashing (within 4 seconds), press the PTY.TI SEARCH button again.

- After the name of the selected programme type has been lit for 2 seconds, "SEARCH" will appear, and the search operation will start.

Note:
If the programme type has changed from flashing to steadily lit and the PTY.TI SEARCH button is pressed, nothing will happen. In this case, start again from step 4.
Each time a station of the programme type you want is encountered, you will be able to listen to the broadcast.
The channel number will flash for about 3 seconds. The station name will flash for 7 seconds, and then remain lit.

- If you want to listen to another station of that programme type, press the PTY.TI SEARCH button whilst the channel number or station name is flashing. The unit will look for the next station of that type.

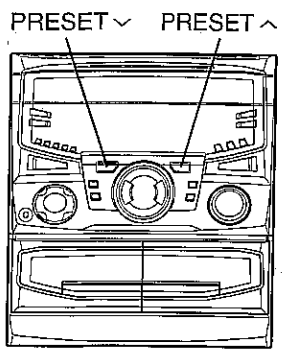
Note:

- If no station of the programme type you want can be found, "NOT FOUND" will appear for 4 seconds.

★ If you have selected the traffic programme:

If you select traffic programme (TP) as the programme type in step 5, to receive only radio stations which broadcast traffic programmes, the TP will appear. (However, this does not necessarily mean that you will hear any traffic announcements at that time.)
When a traffic announcement is actually being made, the TA will appear.
(When both the TP and TA will appear, an announcement is being made.)

(Main unit operation)

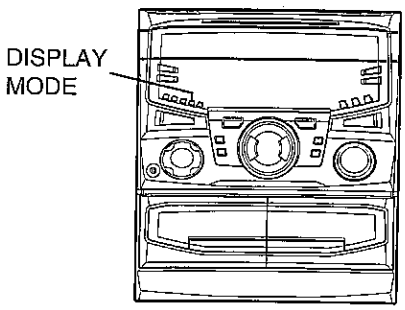


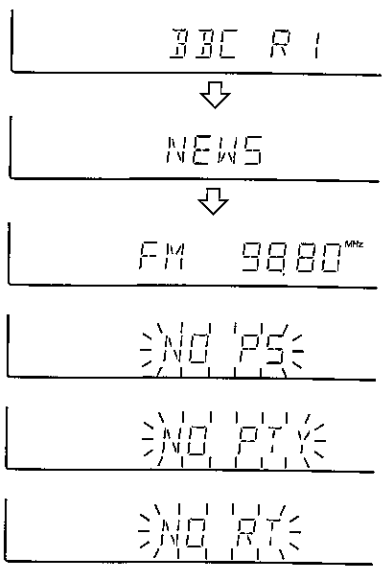
■ To manually recall the stations stored in memory

Press the PRESET (∨ or ∧) button.

- Each time the button is pressed, the channel number will change.
- After the channel number has been displayed for 2 seconds, the frequency for that channel will appear for 2 seconds, and then the station name will appear.

(Main unit operation)





■ To switch the display

Each time the DISPLAY MODE button is pressed whilst an FM station is tuned in, the display will switch as follows:

Station name (PS) → Programme type (PTY) → Radio text (RT) → Frequency

When the station you are tuning in is not an RDS station or even if it is an RDS station but it is very weak signal, the display will change in the following order:

"NO PS" → "NO PTY" → "NO RT" → Frequency

Notes:

- "NO PS", "NO PTY" or "NO RT" will flash for about 5 seconds, and then the frequency will be displayed.
- The display can only be switched whilst tuned to the FM band.

■ Notes for Radio text

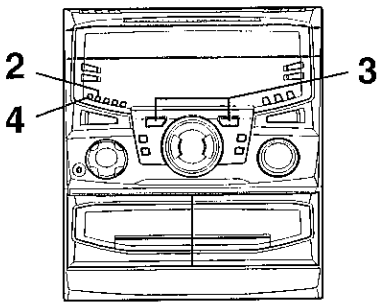
- The radio text for 8 characters will be displayed steadily for 4 seconds and then it will scroll across the display.
- If you tune into a station which is not broadcasting any radio text, even if it is an RDS station, when you switch to the radio text position "NO RT" will be displayed.
- Whilst radio text data is being received or when the text contents change, "RT" will be displayed.

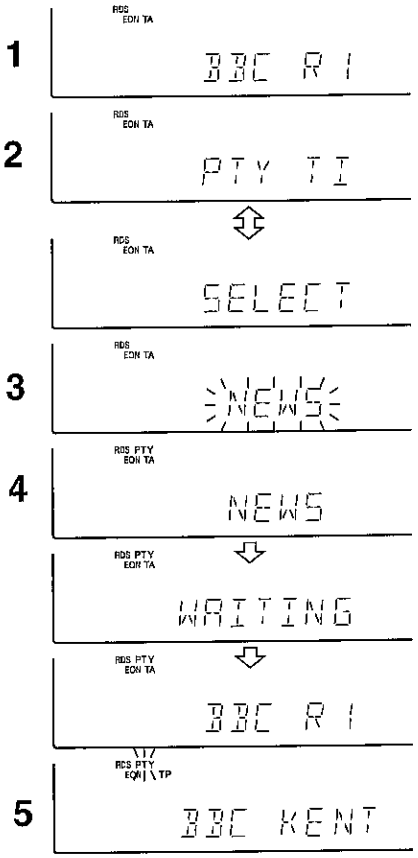
■ Notes for RDS operation

If any of the following events occur, it does not mean that the unit is faulty.

- "PS", "NO PS" and a station name appear alternately, and the unit does not operate properly.
- If a particular station is not broadcasting properly or a station is conducting tests, the RDS reception function may not work properly.
- When you receive an RDS station whose signal is too weak, information like the station name may not be displayed, even if "RDS" is lit.

(Main unit operation)





■ EON-PTY

1 Tune in the desired RDS station (when a station name is being displayed).

2 Press the EON button when "EON" appears.

- "PTY TI" and "SELECT" will appear alternately for about 6 seconds.

3 Whilst they are being displayed, select the desired programme type using the PRESET (∨ or ∧) button.

- The selected programme type will flash.

4 Within 4 seconds, press the PTY.TI SEARCH button.

- The selected programme type and "WAITING" will be displayed for 2 seconds each.
- "PTY" will appear, and the unit will enter the EON-PTY stand-by mode.

5 When a programme of the type specified starts on an ON (other network) station, the unit will automatically switch to the station broadcasting the selected programme type, and "PTY" will flash.

6 When the programme specified for the ON station is over, the unit will automatically return to the original station you were tuned to.

Note:

- If the EON button is pressed when "EON" is not displayed, "NO EON" will appear for 5 seconds to indicate that the unit cannot enter the EON stand-by mode.

Checking the stand-by mode setting:

When in the EON stand-by mode, press the EON button.
("Programme type" → "WAITING")

To cancel the EON stand-by mode:

When in the EON stand-by mode, press the EON button. Within 4 seconds, press it again. The EON stand-by mode will be cancelled.

- "PTY" will go out.

About the PTYI (Dynamic PTY Indicator):

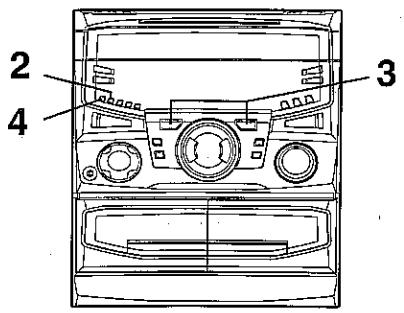
PTYI (Dynamic PTY Indicator) will appear whilst the Dynamic PTY station is being received.
Dynamic PTY indicates that the PTY for the station tuned in, or the PTY referenced in the EON data, is assessed whenever the programme changes and may be changed.

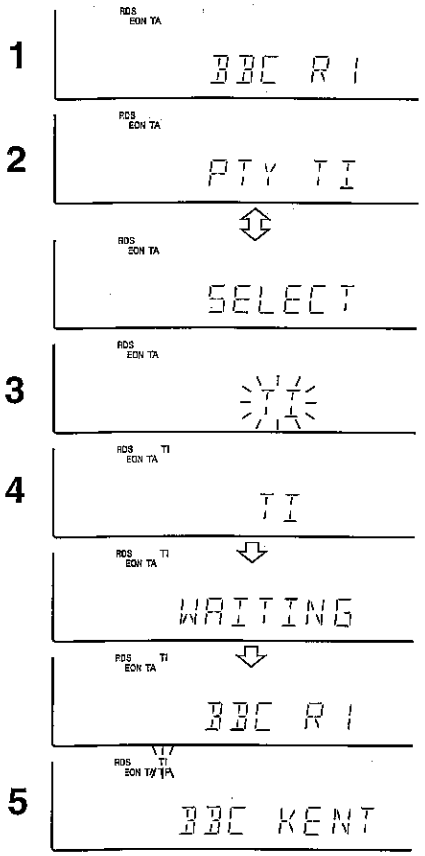
PTYI	Meaning
Lights up	Tuned into a dynamic PTY station.
Goes out	Tuned into a static PTY.

Note:

- When "PTYI" appears, if you press the DISPLAY MODE button to display the programme type, you can check the type of programme you are actually receiving.

(Main unit operation)





■ EON-TI

1 Tune in the desired RDS station (when a station name is being displayed).

2 Press the EON button when "EON" appears.

- "PTY TI" and "SELECT" will appear alternately for about 6 seconds.

3 Whilst they are being displayed, select the TI (Traffic Information) using the PRESET (∨ or ∧) button.

- The selected "TI" will flash.

4 Within 4 seconds, press the PTY.TI SEARCH button.

- "TI" and "WAITING" will appear for 2 seconds each.
- "TI" will appear, and the unit will enter the EON-TI stand-by mode.

5 When a TA specifed starts on an ON (other network) station, the unit will automatically switch to that station, and "TI" will flash.

6 When the traffic announcement is over, the unit will automatically return to the original station you were tuned to.

Note:

- If the EON button is pressed when "EON" is not displayed, "NO EON" will appear for 5 seconds to indicate that the unit cannot enter the EON stand-by mode.

Checking the stand-by mode setting:

When in the EON stand-by mode, press the EON button.
("TI" → "WAITING")

To cancel the EON stand-by mode:

When in the EON stand-by mode, press the EON button. Within 4 seconds, press it again. The EON stand-by mode will be cancelled.

- "TI" will go out.

Note:

- If neither "TP" nor "TA" appear, then even if "EON" appears the unit cannot enter the EON-TI stand-by mode. In this condition, if the PTY.TI SEARCH button is pressed after TI is selected, "NO TI" will flash for 4 seconds.

About the TP and TA indicators

TP indicator	TA indicator	Meaning
Not lit	Not lit	This programme does not carry traffic announcements nor does it refer, via EON, to a programme that does.
Not lit	Lit	This programme carries EON information about another programme which gives traffic information.
Lit	Not lit	This programme carries traffic announcements but none are being broadcast at present and may also carry EON information about other traffic announcements.
Lit	Lit	A traffic announcement is being broadcast on this programme at present.

(Continued)

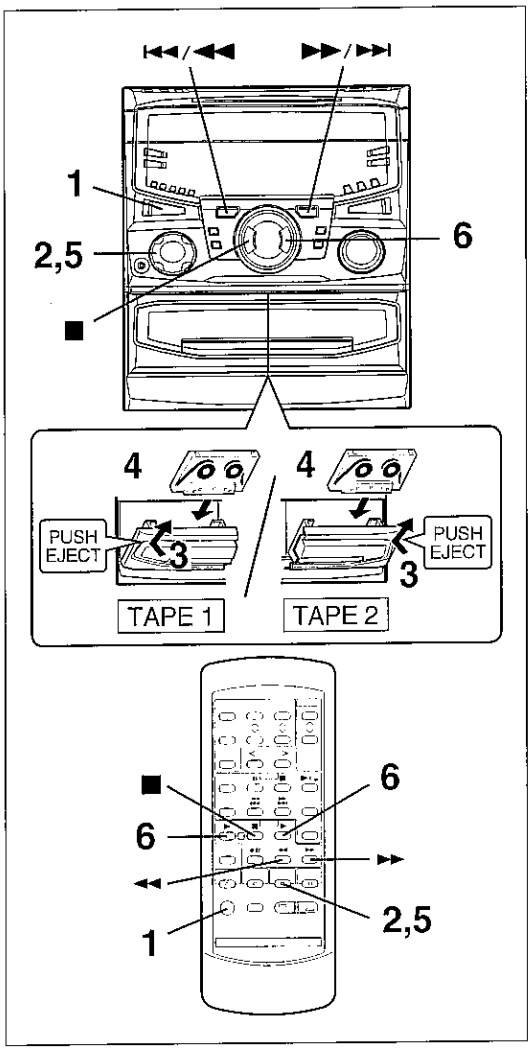
In the following cases, the EON stand-by mode will be cancelled.

- When the unit is set in the stand-by mode
- When the unit is switched to another band in the EON stand-by mode
- When you change the FM station whilst in the EON stand-by mode
- When a preset call is made

Notes:

- During the same programme as the specified PTY (or TA) is being broadcast on the station you are receiving, the unit will not switch to other network station.
- If there are more than two other network stations you want to listen to, compare the strength of each station's signal and tune in the station with the strongest signal. (EON-AF)
  However, if the frequency of other network station has been stored in the preset channel memory, the unit will switch to that preset channel.
- If you want to cancel the reception of an ON (other network) station which was tuned in by the EON system and return to the original station you were receiving, press the EON button.
- After the unit returns to the original station, the stand-by mode will still be active. (The "TI" or "PTY" will remain lit.)
- The unit will not switch from the ON station to another network station. The unit returns to the original station.
- When the unit switches automatically to "other network" station, if there is any problem with this station or the station cannot be received properly "WEAK SIG" will appear and the unit will return to the original station.
- Even if the unit switches from the station you are listening to directly to some "other network" station, if the signals from the other network stations are very weak, the unit will search for the station with the strongest signal and switch to it.
  However, if the signals from all the other network stations are very weak, or if the tuning conditions are very bad (due to electrical noise), the unit will stop searching, "WEAK SIG" will be displayed, and the unit will return to the original station you were receiving.

CASSETTE OPERATION



■ TAPE 1 or TAPE 2 playback

1 Press the ON/STAND-BY button to turn the power on.

2 Press the TAPE (1—2) button.

3 Open the cassette door by pushing the area marked "PUSH EJECT".

4 Load the cassette into the TAPE 1 or TAPE 2 cassette compartment.

5 With cassettes in both decks, press the TAPE (1—2) button to switch operation from one deck to the other.

6 Press the ▶/⊏ button to start playback.

- When playback is performed using the remote control, press the TAPE 1 or TAPE 2 ▶ button.

To stop playback:

Press the ■ (TAPE ■) button.

Fast forward/rewind: (TAPE 2 only)

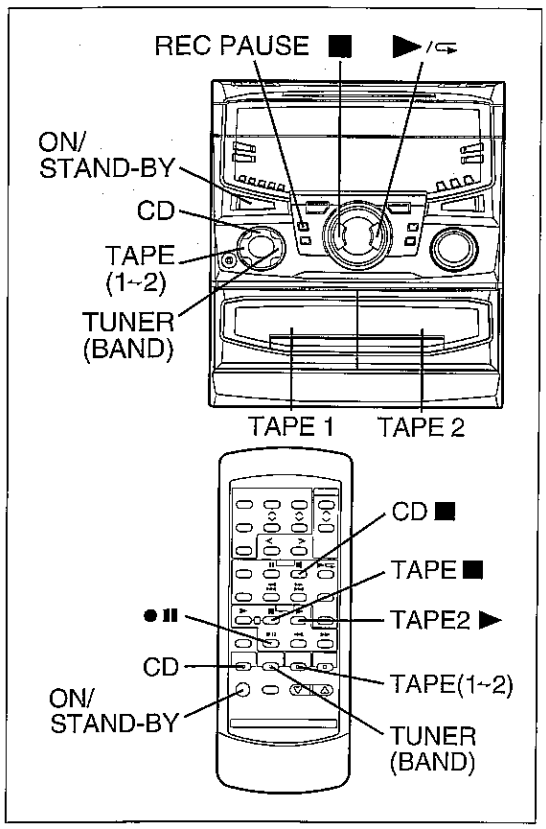
① Press the ■ (TAPE ■) button, then press the TAPE (1 — 2) button to select TAPE 2.

② To advance the tape, press the ▶▶ button.
To rewind it, press the ◀◀ button.

Caution:

- To remove the cassette tape, press the ■ (TAPE ■) button, and then open the cassette compartment.
- Before changing from one tape operation to another, press the ■ (TAPE ■) button.
- If a power failure occurs during tape operation, the tape head will remain engaged with the tape and the cassette door will not open. In this case, wait until power is restored.

- When recording important selections, be sure to make a preliminary test to ensure that the desired material is being properly recorded.
- The volume and sound effect controls may be adjusted with no effect on the recorded signal. (Variable Sound Monitor)



- Metal and CrO_2 tapes should not be used for recording or dubbing.
- To erase a recorded tape, press the TAPE (1 — 2) button to select TAPE 2, press the REC PAUSE (● II) button, and finally press the ▶ / ⊂ (TAPE 2 ▶) button.
  (Check to make sure that TAPE 1 is not being used.)

■ Recording from the built-in CD player (CD Synchronised Recording System)

1 Press the ON/STAND-BY button to turn the power on.

2 Press the CD button and load the desired disc.

- Use the APMS function to store the tracks you want to record in memory. (See page 15.)

3 Load a cassette into the TAPE 2 cassette compartment.

4 Press the REC PAUSE (● II) button.

- "SYNC" and "REC" will flash.

5 Press the ▶/⊂ (TAPE 2 ▶) button.

- "REC" will appear.
- CD playback will start approximately 5 seconds after the tape starts.

To stop recording:
Press the ■ (CD ■) button.
The CD and tape will stop.

Note:
- When the end of the tape is reached whilst recording, the CD player will display the track number which was being played at that time, and stop automatically.
  If you want to restart recording from the interrupted track, turn over the tape, press the REC PAUSE (● II) button and then the ▶/⊂ (TAPE 2 ▶) button.
  (If tracks have been stored in memory using the APMS function, recording will restart from the first track stored in memory.)

■ Recording from the built-in radio

1 Tune in to the desired station. (See pages 16-17.)

2 Load a cassette into the TAPE 2 cassette compartment.

3 Press the REC PAUSE (● II) button.

- "REC" will flash.

4 Press the ▶ / ⊂ (TAPE 2 ▶) button.

- "REC" will appear.

Note:
- If a whistling noise is heard whilst recording from an AM station, move the AM loop aerial to a position where noise is no longer heard from the unit.

To stop recording:
Press the ■ (TAPE ■) button.

■ Dubbing from tape to tape

1 Press the ON/STAND-BY button to turn the power on.

2 Load a prerecorded cassette into the TAPE 1 cassette compartment. Insert a blank tape into the TAPE 2 cassette compartment.

- It is recommended that the recording tape be the same length as the master tape.

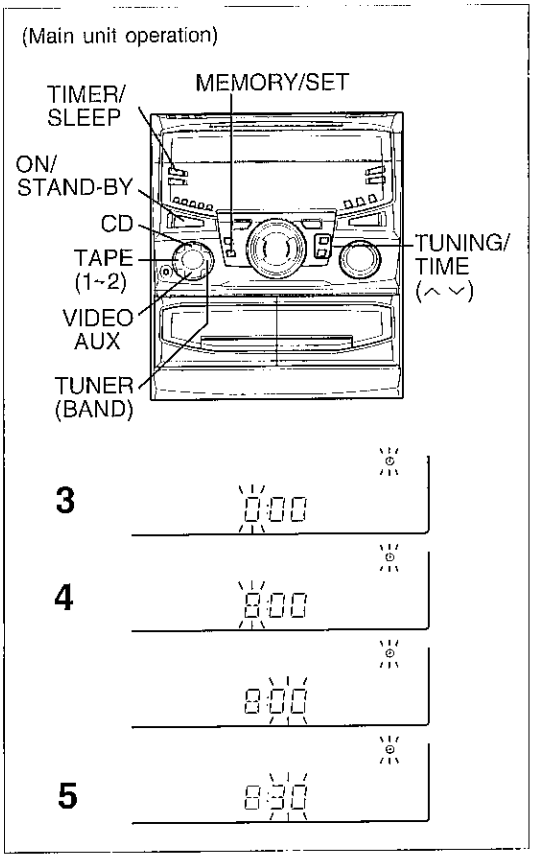
3 Press the TAPE (1 —2) button until "TAPE 1" appears in the display.

4 Press the REC PAUSE (● II) button.

5 Press the ▶ / ⊂ (TAPE 2 ▶) button.

To stop dubbing:
Press the ■ (TAPE ■) button.

- TAPE 1 and TAPE 2 will simultaneously stop.



■ Sleep operation

The radio, compact disc and cassette deck can all be turned off automatically.

1 Play back the desired sound source.

2 Press the TIMER/SLEEP button repeatedly until "SLEEP" is displayed.

To change the sleep time:
Whilst the sleep time is displayed, press the TUNING/TIME (∨ or ∧) button to adjust the time.
(Maximum: 3 hours - Minimum: 1 minute)
The amount of sleep time can also be changed during the sleep operation.

- 3 hours - 5 minutes → 5-minute intervals
- 5 minutes - 1 minute → 1-minute intervals

3 Press the MEMORY/SET button.

4 The unit will turn off automatically after the preset sleep time has elapsed.

Note:

- Once the sleep time is set, it will remain the same duration until the setting is changed.

To confirm the remaining sleep time:
Press the TIMER/SLEEP button.

To cancel the sleep operation:
Press the ON/STAND-BY button to enter the stand-by mode.

■ Timer playback

- Before setting the timer, make sure that the clock setting is correct. (Page 10)

1 Press the ON/STAND-BY button to turn the power on.

2 Press the CD, TUNER (BAND), TAPE (1—2) or VIDEO/AUX button to select the desired function.

3 Press the TIMER/SLEEP button repeatedly until a green "◴" is displayed.

- The timer set indicator will flash.

4 Press the TUNING/TIME (∨ or ∧) button to set the hour start time, then press the MEMORY/SET button.

5 Press the TUNING/TIME (∨ or ∧) button to set the minute start time, then press the MEMORY/SET button.

- The power will be automatically turned off, and the timer set indicator will light up.

6 When the preset time is reached, the volume will increase gradually until it reaches the volume you were listening to before turning off the unit.

7 If you select CD or TAPE during timer playback, the power will be turned off after the tape or CD is finished playing back. If you select TUNER or VIDEO/AUX, the power will be turned off one hour later.

■ Timer recording

1 Press the ON/STAND-BY button to turn the power on.

- Load a cassette for recording into the TAPE 2 cassette compartment.

2 Press the TUNER (BAND) or VIDEO/AUX button to select the desired function.

3 Press the TIMER/SLEEP button repeatedly until a red "◴" is displayed.

- The timer set indicator will flash.

4 Press the TUNING/TIME (∨ or ∧) button to set the hour start time, then press the MEMORY/SET button.

5 Press the TUNING/TIME (∨ or ∧) button to set the minute start time, then press the MEMORY/SET button.

- The power will be automatically turned off, and the timer set indicator will light up.

6 When the recording tape reaches its end, the timer recording will end, and the power will be turned off.

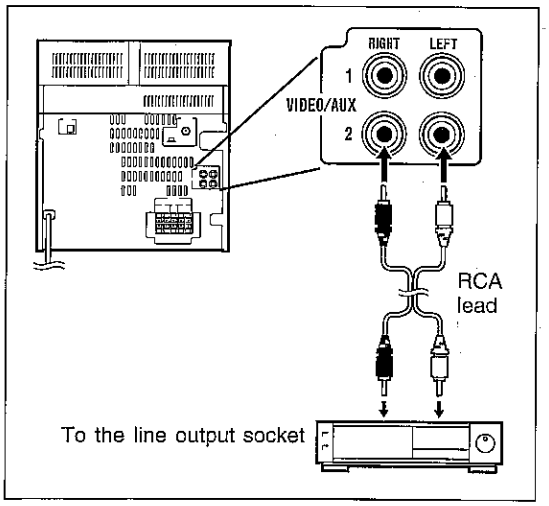
- When timer recording starts, the volume will increase gradually until it reaches the volume you were listening to before turning off the unit.

To cancel timer operation:
Press the ON/STAND-BY button to turn the power on.

To change the programmed contents:
Start again from step 1.

Note:

- Once the time is set, the setting will be retained until a new time is entered.



■ Video/Auxiliary (Audio signal) input

To listen to or record signals from external sources through this unit:

1 Use an RCA lead to connect the desired external unit to the VIDEO/AUX 1 or 2 sockets.
(red → right channel, white → left channel)

- When using video equipment (Laser Disc player or VCR), be sure to connect the audio output to this unit and the video output to a television.

2 Press the ON/STAND-BY button to turn the power on.

3 Press the VIDEO/AUX button.

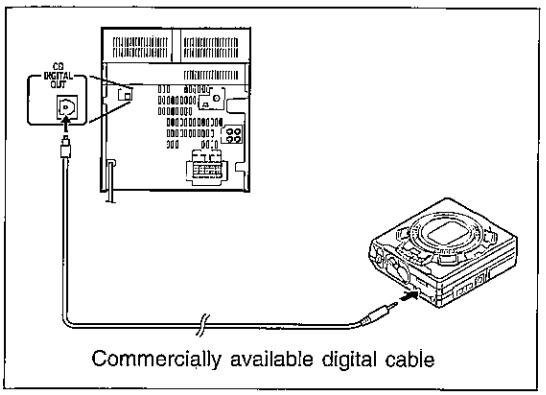
- Select either "VIDEO 1" or "VIDEO 2".

4 Operate the external unit.

5 To record the sound from the external unit, perform steps 1 - 4 of the "Recording from the built-in radio" section on page 27.

Note:

- To prevent hum interference, do not place this unit near television receivers.



Commercially available digital cable

■ CD digital output (optical)

The CD digital signal from this unit can be recorded by other DAT or MiniDisc recorders.

1 Remove the CD DIGITAL OUT socket cover.

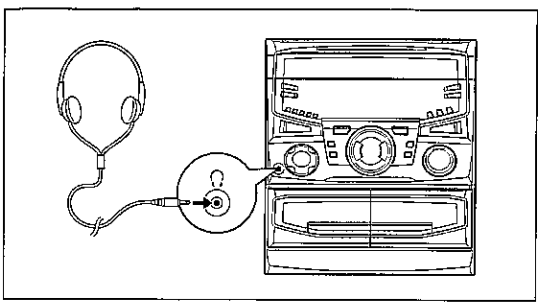
2 Use a commercially available digital cable to connect the unit to the OPTICAL IN socket of a MiniDisc recorder or a DAT.

3 Put the external unit in the recording mode.

4 Play a CD on this unit.

Note:

- Only CD signals can be output.



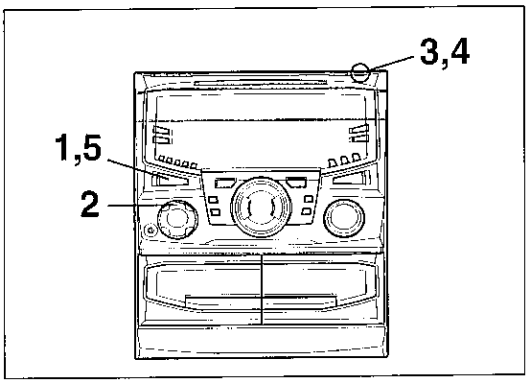
■ Headphones

- Before plugging in or unplugging the headphones, make sure the volume level is reduced.
- Be sure your headphones have a 3.5 mm (1/8") diameter plug and are between 16 ohms and 50 ohms impedance. The recommended impedance is 32 ohms.
- When headphones are connected, the speakers are disconnected automatically. Adjust the VOLUME control for the desired volume.

Note:

- If you use headphones, cancel the Dolby Pro Logic Surround mode.
  Even after the headphones are connected, if the unit is in the Dolby Pro Logic Surround mode, sound will still be heard from the surround and centre speakers.

TRANSPORTING THE UNIT



Before you move this product to a new location, proceed as follows:

1 Press the ON/STAND-BY button to turn the power on.

2 Press the CD button.

3 Press the OPEN/CLOSE button to open the disc tray.

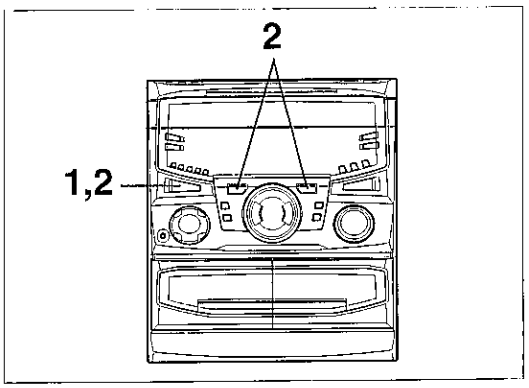
- Remove all CDs inserted in the unit.

4 Press the OPEN/CLOSE button to close the disc tray.

- Make sure that "NO DISC" is displayed.

5 Press the ON/STAND-BY button to enter the stand-by mode, and then unplug the AC power lead from the AC socket.

RESETTING THE MICROCOMPUTER



Reset the microcomputer under the following conditions:

- To erase all of the stored memory contents (clock and timer settings, and tuner and CD presets).
- If the display is not correct.
- If the operation is not correct.

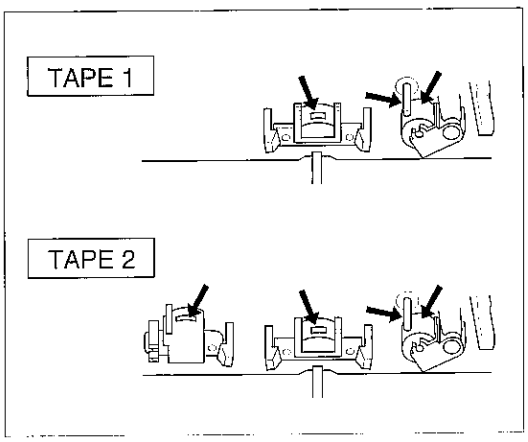
1 Press the ON/STAND-BY button to enter the stand-by mode.

2 Whilst pressing down the |◀◀ / ◀◀ button and the ▶▶ / ▶▶| button, hold down the ON/STAND-BY button for at least 1 second.

Caution:

- The operation explained above will erase all data stored in memory including clock and timer settings, and tuner and CD presets.

MAINTENANCE



■ Internal care

- Dirty heads, capstans or pinch rollers can cause poor sound and tape jams. Clean these parts with a cotton swab moistened with commercial head/pinch roller cleaner or isopropyl alcohol.
- After long use, the deck's heads and capstans may become magnetised, causing poor sound. Demagnetise these parts once every 30 hours of playing/recording time by using a commercial tape head demagnetiser. Read the demagnetiser's instructions carefully before use.

■ External care

- Periodically wipe the cabinet with a soft cloth and a diluted soap solution, then wipe with a dry cloth.
- Do not use chemically treated cleaning cloths or other chemicals.

SPECIFICATIONS

As part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

● General

Power source: AC 230 V, 50 Hz
Power consumption: 125 W
Dimensions: Width; 270 mm (10-5/8")
Height; 300 mm (11-13/16")
Depth; 362 mm (14-1/4")
Weight: 7.6 kg (16.7 lbs.)

● Amplifier section

Output power: PMPO; 420 W
Front speakers;
MPO; 150 W (75 W + 75 W) (DIN 45 324)
RMS; 60 W (30 W + 30 W) (DIN 45 324)
RMS; 56 W (28 W + 28 W) (DIN 45 500)
Center speaker;
MPO; 30 W (DIN 45 324)
RMS; 20 W (DIN 45 324)
RMS; 14 W (DIN 45 500)
Surround speakers;
MPO; 30 W (15 W + 15 W) (DIN 45 324)
RMS; 20 W (10 W + 10 W) (DIN 45 324)
RMS; 14 W (7 W + 7 W) (DIN 45 500)
Output terminals: Front speakers; 6 ohms
Centre speaker; 4 ohms
Surround speakers; 8 ohms
Headphones; 16-50 ohms (recommended; 32 ohms)
CD digital output (optical)
Input terminals: Video/Auxiliary (audio signal) × 2; 500 mV/47 kohms

● Compact disc player section

Type: 3-disc multi-play compact disc player
Signal readout: Non-contact, 3-beam semi-conductor laser pickup
D/A converter: 1-bit D/A converter
Frequency response: 20 - 20,000 Hz
Dynamic range: 90 dB (1 kHz)

● Tuner section

Frequency range: FM; 87.5-108 MHz
AM; 522-1,620 kHz

● Cassette deck section

Frequency response: 50-14,000 Hz (Normal tape)
Signal/noise ratio: 55 dB (TAPE 1, playback)
50 dB (TAPE 2, recording/playback)
Wow and flutter: 0.20 % (DIN 45 511)

● Front speaker section

Type: 2-way [13 cm (5-1/4") woofer and 5 cm (2") tweeter]
Maximum input power: 80 W
Rated input power: 40 W
Impedance: 6 ohms
Dimensions: Width; 200 mm (7-7/8")
Height; 300 mm (11-13/16")
Depth; 240 mm (9-7/16")
Weight: 2.9 kg (6.3 lbs.)/each

● Centre speaker section

Type: 10 cm (4") full-range speaker
Maximum input power: 40 W
Rated input power: 20 W
Impedance: 4 ohms
Dimensions: Width; 260 mm (10-1/4")
Height; 140 mm (5-1/2")
Depth; 155 mm (6-1/8")
Weight: 0.9 kg (2.0 lbs.)

● Surround speaker section

Type: 10 cm (4") full-range speaker
Maximum input power: 20 W
Rated input power: 10 W
Impedance: 8 ohms
Dimensions: Width; 170 mm (6-3/4")
Height; 88 mm (3-1/2")
Depth; 170 mm (6-3/4")
Weight: 0.5 kg (1.0 lbs.)/each

MEMORANDUM/MÉMORANDUM/MEMORÁNDUM/ANTECKNINGAR
/ANNOTAZIONI/MEMORANDUM/MEMO

SHARP

SHARP CORPORATION

TINSZ0443AWZZ

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